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OM nucleic - nucleic search, using sw model

Run on: June 4, 2004, 08:34:44 ; Search time 65 Seconds
(without alignments)
2868.669 Million cell updates/sec

Title: US-09-301-507-74

Perfect score: 336
Sequence: 1 CGCTGCATCTTTTCTATGC.....CCCCNTGGTTCCCAACCCA 336

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PTUS_COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	78.8	23.5	1878	4	US-09-620-312D-625 Sequence 625, App
2	30.6	9.1	651	4	US-09-621-976-11175 Sequence 4491, Ap
3	30.6	9.1	3105	4	US-09-621-976-11175 Sequence 4398, Ap
4	30.2	9.0	531	4	US-09-621-976-2911 Sequence 2311, Ap
5	30	8.9	1080	4	US-09-621-976-2911 Sequence 8705, Ap
6	30	8.9	1233	4	US-09-621-976-2911 Sequence 9076, Ap
7	30	8.9	1293	4	US-09-621-976-2911 Sequence 9249, Ap
8	29.8	8.9	1281	4	US-09-621-976-2911 Sequence 6423, Ap
9	29.8	8.9	1882	4	US-09-621-976-2911 Sequence 427, App
10	29.6	8.8	1162	3	US-08-838-151A-13 Sequence 1, Appli
11	29.6	8.8	1166	3	US-08-838-151A-13 Sequence 13, Appli
12	29.6	8.8	1169	3	US-08-838-151A-13 Sequence 3, Appli
13	29.6	8.8	1169	3	US-08-838-151A-13 Sequence 5, Appli
14	29.6	8.8	1169	3	US-08-838-151A-13 Sequence 7, Appli
15	29.6	8.8	1246	3	US-08-838-151A-15 Sequence 15, Appli
16	29.6	8.8	2602	3	US-08-838-151A-17 Sequence 17, Appli
17	29	8.6	7615	4	US-09-620-312D-330 Sequence 330, App
18	29	8.6	7657	4	US-09-620-312D-353 Sequence 353, App
19	28.8	8.6	24707	4	US-09-740-027-3 Sequence 3, Appli
20	28.4	8.5	556	4	US-09-833-381-1969 Sequence 1969, Ap
21	28.4	8.5	7286	4	US-08-793-273C-1 Sequence 1, Appli
22	28.4	8.5	7286	5	PCT-US95-11684-1 Sequence 1, Appli
23	28.2	8.4	3416	2	US-08-357-642A-2 Sequence 2, Appli
24	28.2	8.4	3416	2	US-08-460-826-2 Sequence 2, Appli
25	28.2	8.4	3416	4	US-09-016-434-1483 Sequence 1483, Ap
26	28.2	8.4	4089	4	US-09-300-958A-13 Sequence 13, Appli
27	28	8.3	449	4	US-09-621-976-14464 Sequence 14464, A

C	28	28	8.3	536165	4	US-09-214-808-1	Sequence 1, Appli
C	29	27.8	8.3	391	4	US-09-621-976-11175	Sequence 11175, A
C	30	27.8	8.3	49136	3	US-09-422-869-1	Sequence 1, Appli
C	31	27.6	8.2	1769	4	US-09-976-594-910	Sequence 910, App
C	32	27.6	8.2	4403765	3	US-09-103-840A-2	Sequence 2, Appli
C	33	27.6	8.2	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C	34	27.4	8.2	2302	4	US-09-154-750A-77	Sequence 77, Appli
C	35	27.2	8.1	940	2	US-08-713-000-3	Sequence 3, Appli
C	36	27.2	8.1	940	2	US-08-975-316-3	Sequence 3, Appli
C	37	27.2	8.1	940	3	US-09-211-710-3	Sequence 3, Appli
C	38	27.2	8.1	940	4	US-09-615-192A-3	Sequence 3, Appli
C	39	27.2	8.1	940	4	US-09-169-789-3	Sequence 3, Appli
C	40	27.2	8.1	1512	3	US-08-911-853-6	Sequence 6, Appli
C	41	27.2	8.1	1512	3	US-09-479-409-6	Sequence 6, Appli
C	42	27.2	8.1	1512	4	US-09-479-453-6	Sequence 124, App
C	43	27.2	8.1	1659	4	US-09-615-192A-124	Sequence 124, App
C	44	27.2	8.1	1659	4	US-09-169-789-124	Sequence 124, App
C	45	27.2	8.1	1785	2	US-08-975-316-48	Sequence 48, Appli

ALIGNMENTS

RESULT 1
US-09-620-312D-625
; Sequence 625, Application US/09620312D
; Patent No. 659662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunging
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 659662el Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: Pt_Fl_Genes Version 1.0
; SEQ ID NO 625
; LENGTH: 1878
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (945)..(1229)
US-09-620-312D-625

Query Match 23.5%; Score 78.8; DB 4; Length 1878;

Best Local Similarity 87.8%; Pred. No. 7.6e-19;

Matches 108; Conservative 0; Mismatches 13; Indels 2; Gaps 2;

Qy 2 GCTGCATCTTTTCTATGCTCTCCCTGCGCTGATGGAGATACAGACGACAAACG 61

Db 464 GCTGCATCTTTTCTATGCTCTCCCTGCTGATGGAGATACAGACGACAAACG 523

QY 62 GACAGCTCGTTCATGATCGACTCGGACCCCTCTGCGNCTGATGAGGACCACTATGTTG 121
 Db |||||
 524 GACAGCTCAT-TCAATAGTACTCGGACCCCTCGACG-CTCATGAGGACCACTATGTTG 581
 QY 122 NAT 124
 Db 582 ATT 584

RESULT 2
 US-09-252-991A-4491/c
 ; Sequence 4398, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; FILE REFERENCE: 107196.136
 ; CURRENT FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO 4491
 ; LENGTH: 651
 ; TYPE: DNA
 ; ORGANISM: Pseudomonas aeruginosa
 US-09-252-991A-4491

Query Match 9.1%; Score 30.6; DB 4; Length 651;
 Best Local Similarity 45.0%; Pred. No. 0.32;
 Matches 90; Conservative 0; Mismatches 110; Indels 0; Gaps 0;
 QY 95 GCGNCTGATGAGGACCACTATGTTGNATCTATCAGCTCACCCTGTTGNTACAGTGA 154
 Db |||||
 368 GCGGCGGATTGCGCCACCAAGGAGGCGCTGCTGATCATGTTTCGGCGCGATGGCG 309
 QY 155 GNCCTCAAGGAAGTAATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGNNITGCC 214
 Db |||||
 308 ATCTGCGACGGCGATAGCGGGGTTTCGCTGTTGCTATCTGCACCGCTGCACGACT 249
 QY 215 TGAGNTTCCAGAGGNCCTGGTCCATCGCTAGCAGGGTTCAGNAAAGGGGCGCG 274
 Db |||||
 248 TGACTGTTACGGCGCTGTTGTCGGTGGCGGCGCTCGTCTGCTTGAAGCAGCGCTCG 189
 QY 275 CNCATGCGAGTCTTGGNCA 294
 Db 188 CTCATGCCGCGCAGCGCGA 169

RESULT 3
 US-09-252-991A-4398/c
 ; Sequence 4398, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; FILE REFERENCE: 107196.136
 ; CURRENT FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO 4398
 ; LENGTH: 3105
 ; TYPE: DNA
 ; ORGANISM: Pseudomonas aeruginosa
 US-09-252-991A-4398

Query Match 9.1%; Score 30.6; DB 4; Length 3105;
 Best Local Similarity 45.0%; Pred. No. 0.8;
 Matches 90; Conservative 0; Mismatches 110; Indels 0; Gaps 0;
 QY 95 GCGNCTGATGAGGACCACTATGTTGNATCTATCAGCTCACCCTGTTGNTACAGTGA 154
 Db |||||
 615 GCGGCGGATTGCGCCACCAAGGAGGCGCTGCTGATCATGTTTCGGCGCGATGGCG 556
 QY 155 GNCCTCAAGGAAGTAATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGNNITGCC 214
 Db |||||
 555 ATCTGCGACGGCGATAGCGGGGTTTCGCTGTTGCTATCTGCACCGCTGCACGACT 496
 QY 215 TGAGNTTCCAGAGGNCCTGGTCCATCGCTAGCAGGGTTCAGNAAAGGGGCGCG 274
 Db |||||
 495 TGACTGTTACGGCGCTGTTGTCGGTGGCGGCGCTCGTCTGCTTGAAGCAGCGCTCG 436
 QY 275 CNCATGCGAGTCTTGGNCA 294
 Db 435 CTCATGCCGCGCAGCGCGA 416

RESULT 4
 US-09-621-976-2911/c
 ; Sequence 2911, Application US/09621976
 ; Patent No. 6639063
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumas Milne Edwards, J.B.
 ; APPLICANT: Jobert, S.
 ; APPLICANT: Giordano, J.Y.
 ; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
 ; FILE REFERENCE: GENSET.054PR2
 ; CURRENT FILING DATE: 2000-07-21
 ; NUMBER OF SEQ ID NOS: 19335
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 2911
 ; LENGTH: 531
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 177..521
 US-09-621-976-2911

Query Match 9.0%; Score 30.2; DB 4; Length 531;
 Best Local Similarity 51.2%; Pred. No. 0.4;
 Matches 62; Conservative 0; Mismatches 59; Indels 0; Gaps 0;
 QY 166 AGAATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGNNITGCCCTGAGNTTCCAG 225
 Db |||||
 147 AGAAGAGTGGAGGCGCTCGCTCAGCTGGGGGCTCAACCCGACTCTTCGTAAGCGCTGC 88
 QY 226 AGGNCCTGCTGCTCCATCGCTAGCAGGGTTCAGNAAAGGGGCGCGCNCATGGCAGT 285
 Db 87 AGCGGCTTGGCATCAGAGTCTCTGGAGGGGTTCAGGCGCGGAGCAGATATAGCAGC 28
 QY 286 C 286
 Db 27 C 27

RESULT 5
 US-09-252-991A-8705/c
 ; Sequence 8705, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; FILE REFERENCE: 107196.136
 ; CURRENT FILING DATE: 1999-02-18
 ; CURRENT APPLICATION NUMBER: US/09/252,991A

PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 8705
LENGTH: 1080
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-8705

Query Match
Best Local Similarity 8.9%; Score 30; DB 4; Length 1080;
Matches 54; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 173 TGGAGGTCCTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNTTCCAGAGGNC 232
DB 533 TGGCGGCGCTCGGTGCACATGGGCGCTGAAGTTGCCAGGGCGCTCGGTGCCAGGTGGCCC 474

QY 233 TGGTCGTCCTCCATCGCTAGCAGGTTTCAAGNAAAGGGGC 271
DB 473 TGTTCACCGCTCGCGGGCAAGGAAGGAGCGCGGC 435

RESULT 6
US-09-252-991A-9076
Sequence 9076, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 9076
LENGTH: 1233
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-9076

Query Match
Best Local Similarity 8.9%; Score 30; DB 4; Length 1233;
Matches 54; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 173 TGGAGGTCCTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNTTCCAGAGGNC 232
DB 725 TGGCGGCGCTCGGTGCACATGGGCGCTGAAGTTGCCAGGGCGCTCGGTGCCAGGTGGCCC 784

QY 233 TGGTCGTCCTCCATCGCTAGCAGGTTTCAAGNAAAGGGGC 271
DB 785 TGTTCACCGCTCGCGGGCAAGGAAGGAGCGCGGC 823

RESULT 7
US-09-252-991A-9249
Sequence 9249, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 9249
LENGTH: 1293
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-9249

Query Match
Best Local Similarity 8.9%; Score 30; DB 4; Length 1293;
Matches 54; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 173 TGGAGGTCCTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNTTCCAGAGGNC 232
DB 1092 TGGCGGCGCTCGGTGCACATGGGCGCTGAAGTTGCCAGGGCGCTCGGTGCCAGGTGGCCC 1151

QY 233 TGGTCGTCCTCCATCGCTAGCAGGTTTCAAGNAAAGGGGC 271
DB 1152 TGTTCACCGCTCGCGGGCAAGGAAGGAGCGCGGC 1190

RESULT 8
US-09-489-039A-6423/c
Sequence 6423, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 6423
LENGTH: 1281
TYPE: DNA
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-6423

Query Match
Best Local Similarity 8.9%; Score 29.8; DB 4; Length 1281;
Matches 85; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 100 TGCATGAGGCGCACCACTATGTTGNATTTCTATCAGCTCACCCCTGTTGNTACAGTGTAGNCTC 159
DB 191 TACTTAAGCGCCAGTATCGAGCGCGCTTGGGGTTTCCAAAGAGGTAAGGCCACCGCCA 132

QY 160 AAAGGAAGATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGN 219
DB 131 TCAGACAGTTTATAGGGTTTGTCTTCTAGCTTTAGATGTATCGACCTGGCGGCTGTGAGC 72

QY 220 TTCCAGAGGNCCTGGTGTCTCCCATCGCTAGCAGGGTTTCAAGNAAAGGGCGCCGCNCAT 279
DB 71 TTCCTTGGGGGTATCTCATTTCAITGACAGGAATCTACCCCAATGTACCCCAAT 12

QY 280 GGCACT 285
DB 11 GAATGT 6

RESULT 9
US-09-620-312D-427
Sequence 427, Application US/09620312D
Patent No. 6569662
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Chen, Rui-hong

PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 8705
LENGTH: 1080
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-8705

Query Match
Best Local Similarity 8.9%; Score 30; DB 4; Length 1080;
Matches 54; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 173 TGGAGGTCCTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNTTCCAGAGGNC 232
DB 533 TGGCGGCGCTCGGTGCACATGGGCGCTGAAGTTGCCAGGGCGCTCGGTGCCAGGTGGCCC 474

QY 233 TGGTCGTCCTCCATCGCTAGCAGGTTTCAAGNAAAGGGGC 271
DB 473 TGTTCACCGCTCGCGGGCAAGGAAGGAGCGCGGC 435

RESULT 6
US-09-252-991A-9076
Sequence 9076, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 9076
LENGTH: 1233
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-9076

Query Match
Best Local Similarity 8.9%; Score 30; DB 4; Length 1233;
Matches 54; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 173 TGGAGGTCCTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNTTCCAGAGGNC 232
DB 725 TGGCGGCGCTCGGTGCACATGGGCGCTGAAGTTGCCAGGGCGCTCGGTGCCAGGTGGCCC 784

QY 233 TGGTCGTCCTCCATCGCTAGCAGGTTTCAAGNAAAGGGGC 271
DB 785 TGTTCACCGCTCGCGGGCAAGGAAGGAGCGCGGC 823

RESULT 7
US-09-252-991A-9249
Sequence 9249, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190

APPLICANT: Zhao, Qing A.
APPLICANT: Wehrman, Tom
APPLICANT: Xue, Aiqiong J.
APPLICANT: Yang, Yonghong
APPLICANT: Wang, Jian-Rui
APPLICANT: Zhou, Ping
APPLICANT: Ma, Yunding
APPLICANT: Wang, Dunrui
APPLICANT: Wang, Zhiwei
APPLICANT: John Tillinghaast
APPLICANT: Drmanac, Radjoje T.
TITLE OF INVENTION: No. 6569662el Nucleic Acids and
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 784CIP2B
CURRENT APPLICATION NUMBER: US/09/620,312D
CURRENT FILING DATE: 2000-07-19
PRIOR APPLICATION NUMBER: 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: 09/488,725
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 1105
SOFTWARE: pc_FL_genes Version 1.0
SEQ ID NO 427
LENGTH: 1882
TYPE: DNA
ORGANISM: Homo sapiens
NAME/KEY: CDS
FEATURE:
LOCATION: (100)...(1371)
US-09-620-312D-427

Query Match 8.9%; Score 29.8; DB 4; Length 1882;
Best Local Similarity 45.8%; Pred. No. 1-2;
Matches 76; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 167 GAATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGGNTTGGCCCTGAGNTTCCAGA 226
DB 113 GAGTATTCCCACTTCTCTGTGGGTGACGAGTATGCTGGGGGAAGATGGGTTCACACA 172

QY 227 GGGNCTGTCTGCTCCATCGCTAGCAGGTTCAAGNAAAGGGCCGCGCATGGCGATC 286
DB 173 GCGAAGTGGCGGCTGTGTGGCCGACGATGATCCATGGCCCGAGATCGCAGAGGCAAGC 232

QY 287 CTTGNCAGNAGNANGGANTTGGNCCCAACCCCTTGGTTCCCAA 332
DB 233 CTTATGCAGAGTTGTGATGGGACTCACCCCGAGGGATGCCAA 278

RESULT 10
US-08-838-151A-1
Sequence 1, Application US/08838151A
Patent No. 6291743
GENERAL INFORMATION:
APPLICANT: Stout, John T
APPLICANT: Luu, Hang T
APPLICANT: Maxwell, Douglas
APPLICANT: Ahlquist, Paul
APPLICANT: Hanson, Steve
TITLE OF INVENTION: Transgenic Plants Expressing Geminivirus
TITLE OF INVENTION: Genes
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dressler, Rocky, Milnamow & Katz
STREET: Two Prudential Plaza, Suite 4700
CITY: Chicago
STATE: Illinois
COUNTRY: U.S.A.
ZIP: 60601
COMPUTER READABLE FORM: disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/838,151A
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Mueller, Lisa V
REGISTRATION NUMBER: 38,978
REFERENCE/DOCKET NUMBER: SVS3801P0260
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-616-5400
TELEFAX: 312-616-5460
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1162 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Tomato Mottle Gemini Virus
INDIVIDUAL ISOLATE: Florida
FEATURE:
NAME/KEY: CDS
LOCATION: 44..1127
PUBLICATION INFORMATION:
AUTHORS: Gilbertson, RL
AUTHORS: Hidayat, SH
AUTHORS: Paplomatas, EJ
AUTHORS: Rojas, MR
AUTHORS: Hou, YM
AUTHORS: Maxwell, DP
TITLE: Pseudorecombination between the infectious
TITLE: cloned DNA components of tomato mottle and bean
TITLE: dwarf mosaic geminiviruses.
JOURNAL: Jour. General Virol.
VOLUME: 74
PAGES: 23-31
DATE: 1993
US-08-838-151A-1

Query Match 8.8%; Score 29.6; DB 3; Length 1162;
Best Local Similarity 63.1%; Pred. No. 1.1;
Matches 41; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 205 CGNNTGGCCCTGAGNTTCCAGAGGNCCTGGTCCCTCCATCGCTAGCAGGGTTCAAGNA 264
DB 660 CGGTCACGCTGCGGGCCAGAGACCTGTAGTATCATCTGTCGAGGGTGATTCAGAA 719

QY 265 AAGGG 269
DB 720 CAGGG 724

RESULT 11
US-08-838-151A-13
Sequence 13, Application US/08838151A
Patent No. 6291743
GENERAL INFORMATION:
APPLICANT: Stout, John T
APPLICANT: Luu, Hang T
APPLICANT: Maxwell, Douglas
APPLICANT: Ahlquist, Paul
APPLICANT: Hanson, Steve
TITLE OF INVENTION: Transgenic Plants Expressing Geminivirus
TITLE OF INVENTION: Genes
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dressler, Rocky, Milnamow & Katz
STREET: Two Prudential Plaza, Suite 4700
CITY: Chicago
STATE: Illinois

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; COUNTRY: U.S.A.
; ZIP: 60601
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/838,151A
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Mueller, Lisa V
; REGISTRATION NUMBER: 38,978
; REFERENCE/DOCKET NUMBER: SVS3801P0260
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-616-5400
; TELEFAX: 312-616-5460
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1166 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Tomato Mottle Geminivirus
; INDIVIDUAL ISOLATE: Florida
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 44..436
; US-08-838-151A-13

Query Match 8.8%; Score 29.6; DB 3; Length 1166;
Best Local Similarity 63.1%; Pred. No. 1.1;
Matches 41; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 205 CGNNTGCCCTGAGNTTCCAGAGGNCCTGGTGTCCATCGCTAGCAGGGTTCAAGNA 264
Db 664 CGGTCAGCTGCGCGCCAGAGACCTTAAGTATCATCTGCGAGGGTGTTCAGAA 723

QY 265 AAGGG 269
Db 724 CAGGG 728

RESULT 12
US-08-838-151A-3
; Sequence 3, Application US/08838151A
; Patent No. 6291743
; GENERAL INFORMATION:
; APPLICANT: Stout, John T
; APPLICANT: Luu, Hang T
; APPLICANT: Maxwell, Douglas
; APPLICANT: Ahlquist, Paul
; APPLICANT: Hanson, Steve
; TITLE OF INVENTION: Transgenic Plants Expressing Geminivirus
; TITLE OF INVENTION: Genes
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dressler, Rocky, Milnamow & Katz
; STREET: Two Prudential Plaza, Suite 4700
; CITY: Chicago
; STATE: Illinois
; COUNTRY: U.S.A.
; ZIP: 60601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30

; COUNTRY: U.S.A.
; ZIP: 60601
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/838,151A
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Mueller, Lisa V
; REGISTRATION NUMBER: 38,978
; REFERENCE/DOCKET NUMBER: SVS3801P0260
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-616-5400
; TELEFAX: 312-616-5460
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1169 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Tomato Mottle Geminivirus
; STRAIN: Florida
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 44..1127
; PUBLICATION INFORMATION:
; AUTHORS: Gilbertson, RL et al.
; TITLE: Pseudorecombination between the infectious
; TITLE: cloned DNA components of tomato mottle and bean
; TITLE: dwarf mosaic Geminivirus.
; JOURNAL: Journal of General Virology
; VOLUME: 74
; PAGES: 23-31
; DATE: 1993
; US-08-838-151A-3

Query Match 8.8%; Score 29.6; DB 3; Length 1169;
Best Local Similarity 63.1%; Pred. No. 1.1;
Matches 41; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 205 CGNNTGCCCTGAGNTTCCAGAGGNCCTGGTGTCCATCGCTAGCAGGGTTCAAGNA 264
Db 660 CGGTGCGCTGCGCGCCAGAGACCTTAAGTATCATCTGCGAGGGTGTTCAGAA 719

QY 265 AAGGG 269
Db 720 CAGGG 724

RESULT 13
US-08-838-151A-5
; Sequence 5, Application US/08838151A
; Patent No. 6291743
; GENERAL INFORMATION:
; APPLICANT: Stout, John T
; APPLICANT: Luu, Hang T
; APPLICANT: Maxwell, Douglas
; APPLICANT: Ahlquist, Paul
; APPLICANT: Hanson, Steve
; TITLE OF INVENTION: Transgenic Plants Expressing Geminivirus
; TITLE OF INVENTION: Genes
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dressler, Rocky, Milnamow & Katz
; STREET: Two Prudential Plaza, Suite 4700
; CITY: Chicago
; STATE: Illinois
; COUNTRY: U.S.A.
; ZIP: 60601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/838,151A
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Mueller, Lisa V
REGISTRATION NUMBER: 38,978
REFERENCE/DOCKET NUMBER: SVS3801P0260
TELEPHONE: 312-616-5400
TELEFAX: 312-616-5460
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1169 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Tomato Mottle Gemini Virus
STRAIN: Florida
FEATURE:
NAME/KEY: CDS
LOCATION: 44..1127
US-08-838-151A-5

Query Match 8.8%; Score 29.6; DB 3; Length 1169;
Best Local Similarity 63.1%; Pred. No. 1.1;
Matches 41; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 205 CGNNTGGCCCTGAGNTTCCAGAGGNCCTGGTGGTCCCATCGCTAGCAGGGTTCAAGNA 264
DB 660 CGGGTCAGCTGCGCGGCCAGAGACCTGTAAGTATCATCGTCGAGGGTGATTCAGAA 719
QY 265 AAGGG 269
DB 720 CAGGG 724

RESULT 14
US-08-838-151A-7
Sequence 7, Application US/08838151A
Patent No. 6291743
GENERAL INFORMATION:
APPLICANT: Stout, John T
APPLICANT: Luu, Hang T
APPLICANT: Maxwell, Douglas
APPLICANT: Ahlquist, Paul
APPLICANT: Hanson, Steve
TITLE OF INVENTION: Transgenic Plants Expressing Geminivirus
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dressler, Rocky, Milnamow & Katz
STREET: Two Prudential Plaza, Suite 4700
CITY: Chicago
STATE: Illinois
COUNTRY: U.S.A.
ZIP: 60601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/838,151A
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:

NAME: Mueller, Lisa V
REGISTRATION NUMBER: 38,978
REFERENCE/DOCKET NUMBER: SVS3801P0260
TELEPHONE: 312-616-5400
TELEFAX: 312-616-5460
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1169 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Tomato Mottle Gemini Virus
STRAIN: Florida
FEATURE:
NAME/KEY: CDS
LOCATION: 44..1127
US-08-838-151A-7

Query Match 8.8%; Score 29.6; DB 3; Length 1169;
Best Local Similarity 63.1%; Pred. No. 1.1;
Matches 41; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 205 CGNNTGGCCCTGAGNTTCCAGAGGNCCTGGTGGTCCCATCGCTAGCAGGGTTCAAGNA 264
DB 660 CGGGTCAGCTGCGCGGCCAGAGACCTGTAAGTATCATCGTCGAGGGTGATTCAGAA 719
QY 265 AAGGG 269
DB 720 CAGGG 724

RESULT 15
US-08-838-151A-15
Sequence 15, Application US/08838151A
Patent No. 6291743
GENERAL INFORMATION:
APPLICANT: Stout, John T
APPLICANT: Luu, Hang T
APPLICANT: Maxwell, Douglas
APPLICANT: Ahlquist, Paul
APPLICANT: Hanson, Steve
TITLE OF INVENTION: Transgenic Plants Expressing Geminivirus
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dressler, Rocky, Milnamow & Katz
STREET: Two Prudential Plaza, Suite 4700
CITY: Chicago
STATE: Illinois
COUNTRY: U.S.A.
ZIP: 60601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/838,151A
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Mueller, Lisa V
REGISTRATION NUMBER: 38,978
REFERENCE/DOCKET NUMBER: SVS3801P0260
TELEPHONE: 312-616-5400
TELEFAX: 312-616-5460
INFORMATION FOR SEQ ID NO: 15:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 1246 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Tomato Mottle Geminivirus
; STRAIN: Florida
; PUBLICATION INFORMATION:
; AUTHORS: Gilbertson, RL
; AUTHORS: Hidayat, SH
; AUTHORS: Paplomatas, EJ
; AUTHORS: Rojas, MR
; AUTHORS: Hou, YM
; AUTHORS: Maxwell, DP
; TITLE: Pseudorecombination between the infectious
; TITLE: Cloned DNA components of tomato mottle and bean
; TITLE: dwarf mosaic geminiviruses.
; JOURNAL: Journal of General Virology
; VOLUME: 74
; PAGES: 23-31
; DATE: 1993
;
US-08-838-151A-15

Query Match      8.8%; Score 29.6; DB 3; Length 1246;
Best Local Similarity 63.1%; Pred.No.1.1;
Matches 41; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Qy      205 GGNNTGGCCCTGAGNTTCCAGAGGNCCTGGTCGTCCTCCATCGCTAGCAGGGTTCAAGNA 264
Db      257 CGGGTGAGCTGCGCGCCAGAGAGACCTGPAAGTATCATCTCGAGGGTGATTCAAGAA 316

Qy      265 AAGGG 269
Db      317 CAGGG 321

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Search completed: June 4, 2004, 15:49:56
Job time : 72 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 4, 2004, 14:59:34 ; Search time 292 Seconds
(without alignments)
5249.420 Million cell updates/sec

Title: US-09-301-507-74
Perfect score: 336
Sequence: 1 CCTGCATCTTTCTATGC.....CCCCNTGGTCCCAACCCA 336

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2995936 seqs, 2280998010 residues

Total number of hits satisfying chosen parameters: 5991872

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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- 2: /cgn2_6/prodata/2/pubpna/PCT_NEW_PUB.seq:*
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- 5: /cgn2_6/prodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/prodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/prodata/2/pubpna/US08_NEW_PUB.seq:*
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- 13: /cgn2_6/prodata/2/pubpna/US09_NEW_PUB.seq:*
- 14: /cgn2_6/prodata/2/pubpna/US10A_PUBCOMB.seq:*
- 15: /cgn2_6/prodata/2/pubpna/US10B_PUBCOMB.seq:*
- 16: /cgn2_6/prodata/2/pubpna/US10C_PUBCOMB.seq:*
- 17: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq:*
- 18: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq:*
- 19: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	318	94.6	336	16	US-10-355-716-74 Sequence 74, Appl
2	86.8	25.6	252	16	US-10-355-716-74 Sequence 76, Appl
3	79.8	23.8	412	15	US-10-198-846-1775 Sequence 1775, Ap
4	78.8	23.5	455	15	US-10-198-846-1775 Sequence 8657, AD
5	78.8	23.5	1878	15	US-10-037-270-625 Sequence 625, App
6	78.8	23.5	1878	16	US-10-117-722-625 Sequence 625, App
7	78.8	23.5	2061	15	US-10-198-846-11013 Sequence 11013, A
8	34.4	10.2	254087	13	US-10-087-192-223 Sequence 223, App
9	32.6	9.7	2464	13	US-10-424-599-123456 Sequence 123456, A
10	32.4	9.6	23715	13	US-10-087-192-1420 Sequence 1420, Ap
11	31.8	9.5	368	13	US-10-424-598-2667 Sequence 2667, Ap
12	31.6	9.4	2181	17	US-10-380-040A-7 Sequence 7, Appl
13	31.6	9.4	96596	12	US-09-997-722-196 Sequence 196, App
14	31.4	9.3	465	10	US-09-918-995-15342 Sequence 15342, A

C 15	31.4	9.3	1651	14	US-10-044-090-506	Sequence 506, App
C 16	31.4	9.3	3023	9	US-09-079-892-4	Sequence 4, Appl
C 17	31.4	9.3	3048	14	US-10-044-090-685	Sequence 685, App
C 18	31.2	9.3	267	9	US-09-864-761-20635	Sequence 20635, A
C 19	31.2	9.3	267	9	US-09-864-761-27153	Sequence 27153, A
C 20	31.2	9.3	65047	13	US-10-087-192-259	Sequence 259, App
C 21	30.8	9.2	631	13	US-10-027-632-307934	Sequence 307934, A
C 22	30.8	9.2	631	13	US-10-027-632-307935	Sequence 307935, A
C 23	30.8	9.2	631	13	US-10-027-632-307936	Sequence 307936, A
C 24	30.8	9.2	631	16	US-10-027-632-307934	Sequence 307934, A
C 25	30.8	9.2	631	16	US-10-027-632-307935	Sequence 307935, A
C 26	30.8	9.2	631	16	US-10-027-632-307936	Sequence 307936, A
C 27	30.6	9.1	1538	13	US-10-412-6938-793	Sequence 793, App
C 28	30.6	9.1	1538	13	US-10-225-068A-273	Sequence 273, App
C 29	30.6	9.1	1538	16	US-10-225-068-171	Sequence 171, App
C 30	30.6	9.1	1538	16	US-10-374-780A-249	Sequence 249, App
C 31	30.6	9.1	1554	15	US-10-295-403-119	Sequence 119, App
C 32	30.4	9.0	643	13	US-10-027-632-196994	Sequence 196994, A
C 33	30.4	9.0	643	16	US-10-027-632-196994	Sequence 196994, A
C 34	30.4	9.0	1206	13	US-10-424-599-96803	Sequence 96803, A
C 35	30.2	9.0	404	13	US-10-027-632-264398	Sequence 264398, A
C 36	30.2	9.0	404	13	US-10-027-632-264399	Sequence 264399, A
C 37	30.2	9.0	404	16	US-10-027-632-264398	Sequence 264398, A
C 38	30.2	9.0	404	16	US-10-027-632-264399	Sequence 264399, A
C 39	30.2	9.0	765	16	US-10-264-237-1323	Sequence 1323, Ap
C 40	30.2	9.0	965	10	US-09-820-649-45	Sequence 45, Appl
C 41	30.2	9.0	1136	13	US-10-160-162-45	Sequence 45, Appl
C 42	30.2	9.0	1136	13	US-10-425-114-20469	Sequence 20469, A
C 43	30.2	9.0	1257	13	US-10-343-650A-49	Sequence 49, Appl
C 44	30.2	9.0	1338	15	US-10-275-554-1	Sequence 1, Appl
C 45	30.2	9.0	1732	15	US-10-029-656-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-10-355-716-74
; Sequence 74, Application US/10355716
; Publication No. US20030216339A1
; GENERAL INFORMATION:
; APPLICANT: Cynader, Max
; Prasad, Shiv
; TITLE OF INVENTION: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METHODS RELATED THERETO
; NUMBER OF SEQUENCES: 132
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seed Intellectual Property Law Group PLLC
; STREET: 701 Fifth Avenue, Suite 6300
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/355,716
; FILING DATE: 31-Jan-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/301,507
; FILING DATE: 28-Apr-1999
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 230018.401C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 74:

SEQUENCE CHARACTERISTICS:
LENGTH: 336 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 74:
US-10-355-716-74

Query Match 94.6%; Score 318; DB 16; Length 336;
Best Local Similarity 100.0%; Pred. No. 5e-108;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCTGCATCTTTTCTATGCTCTCCCTGCTGGGGCTGATGGGAGATACAGACGCAAAAC 60
DB 1 CGCTGCATCTTTTCTATGCTCTCCCTGCTGGGGCTGATGGGAGATACAGACGCAAAAC 60

QY 61 GGACAGCTGCTNTCATGATCGGACCTCTGCGNCTGATGAGGACCACTATGTT 120
DB 61 GGACAGCTGCTNTCATGATCGGACCTCTGCGNCTGATGAGGACCACTATGTT 120

QY 121 GNATTCATCAGCTACCCGTTGNTCAAGTGTAGNCTCAAAGGAAGATAGTGGAGTC 180
DB 121 GNATTCATCAGCTACCCGTTGNTCAAGTGTAGNCTCAAAGGAAGATAGTGGAGTC 180

QY 181 TTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNCTCCAGAGGNCCTGTCGTC 240
DB 181 TTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNCTCCAGAGGNCCTGTCGTC 240

QY 241 CCATCCCTAGCAGGTTTCAAGNAAAGGGCCCGCNCATGCGAGTCTCTTGCNAGNAGNA 300
DB 241 CCATCCCTAGCAGGTTTCAAGNAAAGGGCCCGCNCATGCGAGTCTCTTGCNAGNAGNA 300

QY 301 ANGANTTGNCCCAACCCCTGTTGGTTCCCAACCCA 336
DB 301 ANGANTTGNCCCAACCCCTGTTGGTTCCCAACCCA 336

RESULT 2
US-10-355-716-76
Sequence 76, Application US/10355716
Publication No. US20030216339A1
GENERAL INFORMATION:
APPLICANT: Cynader, Max
Praisad, Shiv
TITLE OF INVENTION: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METHODS RELATED THERETO
NUMBER OF SEQUENCES: 132
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group PLLC
STEEN: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/355,716
FILING DATE: 31-Jan-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/301,507
FILING DATE: 28-Apr-1999
ATTORNEY/AGENT INFORMATION:
NAME: Potter, Jane E. R.
REGISTRATION NUMBER: 33,332
REFERENCE/DOCKET NUMBER: 230018.401C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 76:
SEQUENCE CHARACTERISTICS:
LENGTH: 252 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 76:
US-10-355-716-76

Query Match 25.8%; Score 86.8; DB 16; Length 252;
Best Local Similarity 96.7%; Pred. No. 1.1e-21;
Matches 88; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CGCTGCATCTTTTCTATGCTCTCCCTGCTGGGGCTGATGGGAGATACAGACGCAAAAC 60
DB 1 CGCTGCATCTTTTCTATGCTCTCCCTGCTGGGGCTGATGGGAGATACAGACGCAAAAC 60

QY 61 GGACAGCTGCTNTCATGATCGGACCTCTCGGACCC 91
DB 61 GGACAGCTGCTNTCATGATCGGACCTCTCGGACCC 91

RESULT 3
US-10-198-846-1775
Sequence 1775, Application US/10198846
Publication No. US2003009974A1
GENERAL INFORMATION:
APPLICANT: Lillie, James
APPLICANT: Xu, Yongyao
APPLICANT: Steinmann, Kathleen
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
TITLE OF INVENTION: FOR IDENTIFICATION ASSESSMENT, PREVENTION, AND
TITLE OF INVENTION: THERAPY OF BREAST CANCER
FILE REFERENCE: MRI-049
CURRENT APPLICATION NUMBER: US/10/198,846
CURRENT FILING DATE: 2002-07-18
PRIOR APPLICATION NUMBER: 60/306,220
PRIOR FILING DATE: 2001-07-18
NUMBER OF SEQ ID NOS: 14084
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1775
LENGTH: 412
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3, 203, 293, 343, 398
OTHER INFORMATION: n = A,T,C or G
US-10-198-846-1775

Query Match 23.8%; Score 79.8; DB 15; Length 412;
Best Local Similarity 87.9%; Pred. No. 5.4e-19;
Matches 109; Conservative 0; Mismatches 13; Indels 2; Gaps 2;

QY 1 CGCTGCATCTTTTCTATGCTCTCCCTGCTGGGGCTGATGGGAGATACAGACGCAAAAC 60
DB 49 CGCTGCATCTTTTCTATGCTCTCCCTGCTGGGGCTGATGGGAGATACAGACGCAAAAC 108

QY 61 GGACAGCTGCTNTCATGATCGGACCTCTCGGACCCCTGCGNCTGATGAGGACCACTATGTT 120
DB 109 GGACAGCTCAT-TCATAATGGACTCGGACCCCTCGAGC-CTGCAATGAGGACCACTATGTT 166

QY 121 GNAT 124
DB 167 GATT 170

RESULT 4
US-10-198-846-8657
Sequence 8657, Application US/10198846
Publication No. US2003009974A1
GENERAL INFORMATION:

APPLICANT: Lillie, James
APPLICANT: Xu, Yongyao
APPLICANT: Wang, Youzhen
APPLICANT: Steinmann, Kathleen
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
TITLE OF INVENTION: THERAPY OF BREAST CANCER
FILE REFERENCE: MRI-049
CURRENT APPLICATION NUMBER: US/10/198,846
CURRENT FILING DATE: 2002-07-18
PRIOR APPLICATION NUMBER: 60/306,220
PRIOR FILING DATE: 2001-07-18
NUMBER OF SEQ ID NOS: 14084
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8657
LENGTH: 455
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: 2, 7, 404, 454
OTHER INFORMATION: n = A, T, C or G
US-10-198-846-8657

Query Match 23.5%; Score 78.8; DB 15; Length 455;
Best Local Similarity 87.8%; Pred. No. 1.3e-18;
Matches 108; Conservative 0; Mismatches 13; Indels 2; Gaps 2;
QY 2 GCTGCATCTTTTCTATGCTCTCCCTGCTGCGCTGATGGGAGATACAGACGAAACG 61
DB 60 GCTGCATCTTTTCTATGCTCTCCCTGCTGCGCTGATGGGAGATACAGACGAAACG 119
QY 62 GACAGCTCGTNTCATGATCGACTCGGACCCCTCTCGGCTGATGGGAGATACAGACGAAACG 121
DB 120 GACAGCTCAT-TCATAATGACTCGGACCCCTCGACG-CTGCATGAGGCACCACTATGTGG 177
QY 122 NAT 124
DB 178 ATT 180

RESULT 5
US-10-037-270-625
Sequence 625, Application US/10037270
Publication No. US20030104529A1
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyun
APPLICANT: Chen, Rui-hong
APPLICANT: Zhao, Qing A.
APPLICANT: Wehrman, Tom
APPLICANT: Xue, Aidong J.
APPLICANT: Yang, Yonghong
APPLICANT: Wang, Jian-Rui
APPLICANT: Zhou, Ping
APPLICANT: Ma, Yunding
APPLICANT: Wang, Dunrui
APPLICANT: Wang, Zhiwei
APPLICANT: Tillinghast, John
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: No. US20030104529A1e1 Nucleic Acids and
FILE REFERENCE: 784CIP2B
CURRENT APPLICATION NUMBER: US/10/037,270
CURRENT FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: 09/488,725
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 1104

SOFTWARE: pt_FL_genes Version 1.0
SEQ ID NO 625
LENGTH: 1878
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (945)..(1229)
US-10-037-270-625
Query Match 23.5%; Score 78.8; DB 15; Length 1878;
Best Local Similarity 87.8%; Pred. No. 2.5e-18;
Matches 108; Conservative 0; Mismatches 13; Indels 2; Gaps 2;
QY 2 GCTGCATCTTTTCTATGCTCTCCCTGCTGCGCTGATGGGAGATACAGACGAAACG 61
DB 464 GCTGCATCTTTTCTATGCTCTCCCTGCTGCGCTGATGGGAGATACAGACGAAACG 523
QY 62 GACAGCTCGTNTCATGATCGACTCGGACCCCTCTCGGCTGATGGGAGATACAGACGAAACG 121
DB 524 GACAGCTCAT-TCATAATGACTCGGACCCCTCGACG-CTGCATGAGGCACCACTATGTGG 581
QY 122 NAT 124
DB 582 ATT 584

RESULT 6
US-10-117-722-625
Sequence 625, Application US/10117722
Publication No. US20030219744A1
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: No. US20030219744A1e1 Nucleic Acids and
FILE REFERENCE: 784CIP2B
CURRENT APPLICATION NUMBER: US/10/117,722
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: 09/620,312
PRIOR FILING DATE: 2000-07-19
PRIOR APPLICATION NUMBER: 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: 09/488,725
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 1104
SOFTWARE: pt_FL_genes Version 1.0
SEQ ID NO 625
LENGTH: 1878
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (945)..(1229)
US-10-117-722-625

Query Match 23.5%; Score 78.8; DB 16; Length 1878;
Best Local Similarity 87.8%; Pred. No. 2.5e-18;
Matches 108; Conservative 0; Mismatches 13; Indels 2; Gaps 2;
QY 2 GCTGCATCTTTTCTATGCTCTCCCTGCTGCGCTGATGGGAGATACAGACGAAACG 61
DB 464 GCTGCATCTTTTCTATGCTCTCCCTGCTGCGCTGATGGGAGATACAGACGAAACG 523
QY 62 GACAGCTCGTNTCATGATCGACTCGGACCCCTCTCGGCTGATGGGAGATACAGACGAAACG 121
DB 524 GACAGCTCAT-TCATAATGACTCGGACCCCTCGACG-CTGCATGAGGCACCACTATGTGG 581
QY 122 NAT 124

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Db      582 ATT 584

RESULT 7
US-10-198-846-11013
; Sequence 11013, Application US/10198846
; Publication No. US2003099974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11013
; LENGTH: 2061
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1, 2, 3, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838,
; LOCATION: 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848,
; LOCATION: 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1860, 2009,
; LOCATION: 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057,
; LOCATION: 2058, 2059, 2060, 2061
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-11013
Query Match      23.5%; Score 78.8; DB 15; Length 2061;
Best Local Similarity 87.8%; Pred. No. 2.6e-18;
Matches 108; Conservative 0; Mismatches 13; Indels 2; Gaps 2;

QY      2 GCTGATCTTTTCTATGCTCTCCCTGCTGGCGCTGATGGGATACAGACCAAAAG 61
Db      427 GCTGATCTTTTCTATGCTCTCCCTGCTGGCGCTGATGGGATACAGACCAAAAG 486
QY      62 GACAGCTCGTNTCATGATCGACTCGGACCTCTCGCGCTGCTGATGAGGACCACTATGTTG 121
Db      487 GACAGCTCAT-TCATATGACTCGGACCTCGACCTCGAAG-CTGATGAGGACCACTATGTTG 544
QY      122 NAT 124
Db      545 ATT 547

RESULT 8
US-10-087-192-223
; Sequence 223, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02

; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 223
; LENGTH: 254087
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(254087)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-223
Query Match      10.2%; Score 34.4; DB 13; Length 254087;
Best Local Similarity 51.9%; Pred. No. 0.8;
Matches 68; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY      148 AAGTGTAGNCTCAAAGGAAGATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGN 207
Db      34592 AAGTGTAGTACGCAAGGCAAGTGTACTGGAGCCACTTTTATTTCTTATTTATAATCTCAG 34651
QY      208 NTGGCCCTGAGNTTCCAGAGGNCCTGGTCGTCGCCATCCCTAGCAGGGTTCAGNAAAG 267
Db      34652 TCGGAGCTTGGTAAACGGATGACACCGCCCTCTCAATTCAAAGCAGGAGGACACAG 34711
QY      268 GGGCCCGCNCA 278
Db      34712 ATGACAGAGCA 34722

RESULT 9
US-10-424-599-123456
; Sequence 123456, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 123456
; LENGTH: 2464
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_82489C.1
US-10-424-599-123456
Query Match      9.7%; Score 32.6; DB 13; Length 2464;
Best Local Similarity 54.1%; Pred. No. 0.5;
Matches 59; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY      134 TCACCCGTTGNTACAAAGTGTAGNCTCAAAGGAAGAAATAGTGGAGTCTTCTGTGAGACCT 193
Db      78 TTATCCCGACAGCCACCCGCGCAGCACCCAGAGAGAGAGAGAGTGTGCTGAGTACG 137
QY      194 ATCTGAATCCCGNNTGGCCCTGAGNTTCCAGAGGNCCTGGTCGTCGCC 242
Db      138 ACCTAACTCCGCGATGGCGCGAATCTCGACAGGACCTTGTGTGCC 186

RESULT 10
US-10-087-192-1420
; Sequence 1420, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
```

; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1420
; LENGTH: 23715
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(23715)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-1420

Query Match 9.6%; Score 32.4; DB 13; Length 23715;
Best Local Similarity 45.8%; Pred. No. 1.6;
Matches 93; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

QY 35 CTGATGGGAGATACAGACAGCAAAAGGACAGCTCGTNTCATGATCGACTCGGACCCCTCT 94
DB 1250 CTGGAGATTATACACATACACTACTGCTGCAAGTTTGGGGCTATTCTTAGTATTG 1309

QY 95 GCNCTGCTAGAGGACCACTATGTTGNATTTATCATGCTCAACCGTGTGNTACAGTGTA 154
DB 1310 GCAAGGGTGTAGGGCATCAGATGTCATCAGCAGTGTGCTTCTCATGCTCTTCTGCTA 1369

QY 155 GNCCTAAAGGAAGATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGNNTGGCCC 214
DB 1370 GTGAGAGGCCAAGATAGCTGGACTTCCAGAGATTGATCCCAATCTAGGAATGATGA 1429

QY 215 TGAGNTTCCAGAGGNCCTGGTC 237
DB 1430 TTGCTGTCTTAATAGGCTTAGGC 1452

RESULT 11
US-10-424-599-2667
; Sequence 2667, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 2667
; LENGTH: 368
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_102413C.1
US-10-424-599-2667

Query Match 9.5%; Score 31.8; DB 13; Length 368;
Best Local Similarity 60.8%; Pred. No. 0.44;
Matches 48; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 164 GAAGATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNTTCC 223
DB 226 GAAGAGAGAAGAGTGGTGTGATGACCTAATCTCGGATGCGCGGAACTCTCG 285

QY 224 AGAGGNCCTGTCGTCCC 242

Db 286 ACAGGCACCTTGTTGTTCCC 304

RESULT 12
US-10-380-040A-7
; Sequence 7, Application US/10380040A
; Publication No. US20040077043A1
; GENERAL INFORMATION:
; APPLICANT: Kirin Beer Kabushiki Kaisha
; TITLE OF INVENTION: A NOVEL DENDRITIC CELL MEMBRANE MOLECULE AND USE THEREOF
; FILE REFERENCE: PH-1297PCT-US
; CURRENT APPLICATION NUMBER: US/10/380,040A
; CURRENT FILING DATE: 2003-03-11
; PRIOR APPLICATION NUMBER: JP 2000-277352
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 2181
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: a fusion
; OTHER INFORMATION: protein of BRIGHT extracellular domain (29-465)
; OTHER INFORMATION: and human Igg1Fc domain
US-10-380-040A-7

Query Match 9.4%; Score 31.6; DB 17; Length 2181;
Best Local Similarity 46.6%; Pred. No. 1.1;
Matches 88; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 25 CCTGCTGGGGCTGATGGAGATACAGACAGCAAAACGACAGCTCGTNTCATGATCGACT 84
DB 1329 CTTGCGGGTGTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1389

QY 85 CGGACCTCTGCGNCTGTCATGAGGCGACCACTATGTTGNATTTCTATCAGCTCACCCGTTGN 144
DB 1389 GCAGCAGGATGCGCAGGCTCTGTCCACATCACAGGSCACCTATGACATTTCCCCCAGA 1448

QY 145 TACAAGTGTAGNCTCAAAGAAAGATAGTGGGAGTCTTCTGTGAGACCTATCTGAATCCC 204
DB 1449 GTCTAGAGCAGACTACAAGGACGACGATGATGACAAAGACTAGTGACAAAACCTCACATGCC 1508

QY 205 CGNNTGGCC 213
DB 1509 ACCGTGCCC 1517

RESULT 13
US-09-997-722-196/c
; Sequence 196, Application US/09997722
; Publication No. US20040072154A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David
; APPLICANT: Engelhard, Eric
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER
; FILE REFERENCE: A-71171/RMS/DCF
; CURRENT APPLICATION NUMBER: US/09/997,722
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 301
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 196
; LENGTH: 96596
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-997-722-196

Query Match 9.4%; Score 31.6; DB 12; Length 96596;

Best Local Similarity 44.1%; Pred. No. 5.8;
Matches 94; Conservative 0; Mismatches 119; Indels 0; Gaps 0;
QY 107 GGCACCACTATGTTGNATCTATCAGCTCACCGTTCGATCAAGTGTAGNCTCAAGGAA 166
Db 81011 GGAATAACTTTGGCTTAAACAAATTTCTCAATATGTACATCATCTACCAAGAGGTC 80952
QY 167 GAATAGTGGAGTCTTCTGTGAGACCTATCTGAATCCCGNNTGGCCCTGAGNTTCCAGA 226
Db 80951 CTATTATATTAGAAAGTGTGAGTGAATCTTTTCCCGTTGAATTTTAGTGTTTAAAAA 80892
QY 227 GGCNCTGTCGTCCTCCATCCCTAGCAGGTTCAAGNAAAGGGCCCGCNCATGGCAGTC 286
Db 80891 GTGATCTGCAAGACACATGTTCTTTATTAGCTTAAAGAGGAGCCCTCTGCTGGTAGAA 80832
QY 287 CTTGNCAGNAGNAANGANTTGNCCCAACCC 319
Db 80831 CTGAATCAGTAATCTCTGCTTTGGAGAAACC 80799

RESULT 14
US-09-918-995-15342
; Sequence 15342, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15342
; LENGTH: 465
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(465)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-15342

Query Match 9.3%; Score 31.4; DB 10; Length 465;
Best Local Similarity 58.9%; Pred. No. 0.69;
Matches 53; Conservative 0; Mismatches 37; Indels 0; Gaps 0;
QY 2 GCTGCATCTTTTCTATGCTCTCCCTGCTGGCGCTGATGGAGATACAGACAGCAAAACG 61
Db 123 GTTCAAGTCTTGTGCACCTCCCTCTGGATCAGGTAGGGGTCCAGACAGCTGACCA 182
QY 62 GACAGCTCGTNTCATGATCGACTCGGACCC 91
Db 183 GACAGCTGACAGCTGGTCAAGACGGTCAC 212

RESULT 15
US-10-044-090-506/c
; Sequence 506, Application US/10044090
; Publication No. US20020137081A1
; GENERAL INFORMATION:
; APPLICANT: Olga Bandman
; TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN VASCULAR TISSUE ACTIVATION
; FILE REFERENCE: PA-0028 US
; CURRENT APPLICATION NUMBER: US/10/044,090
; CURRENT FILING DATE: 2002-01-09
; NUMBER OF SEQ ID NOS: 850
; SOFTWARE: PERL Program
; SEQ ID NO 506
; LENGTH: 1651
; TYPE: DNA

; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20020137081A1 403121.11
US-10-044-090-506
Query Match 9.3%; Score 31.4; DB 14; Length 1651;
Best Local Similarity 50.7%; Pred. No. 1.2;
Matches 68; Conservative 0; Mismatches 66; Indels 0; Gaps 0;
QY 71 TATCATGATCGACTCGGACCCCTCTGCNCTGTCATGAGGACCACTATGTTGNATCTATC 130
Db 910 TGTCAAGCTCTACAGGAGCAGCAGAACATGTGGGATGTCCACTTCTCTTCCCATGTAGC 851
QY 131 AGCTCACCCCTTGNATCAAGTGTAGNCTCAAGGAAGAATAGTGGAGTCTTCTGTGAGA 190
Db 850 ATCCCTGCTGTTGGGACAGCTCTGGAATCAGATGAAGGTGTGATGCTTGTCAAGGT 791
QY 191 CCTATCTGAATCCC 204
Db 790 CTCAGCCTCATTC 777
Search completed: June 4, 2004, 16:50:42
Job time : 294 secs

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OM nucleic - nucleic search, using sw model

Run on: June 4, 2004, 16:50:56 ; Search time 65 Seconds
(without alignments)

2868.669 Million cell updates/sec

Title: US-09-301-507-74

Perfect score: 336

Sequence: 1 CGTGCATCTTTCTATGC.....CCCNCTGGTTCACACCA 336

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Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database :

Issued Patents NA:*

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6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	6.5	1878	4	US-09-620-312D-625
2	20	6.0	1895	4	US-09-326-203A-14
3	20	6.0	1976	3	US-09-165-042-2
4	19	5.7	939	4	US-09-489-039A-1843
5	17	5.1	1512	4	US-09-252-991A-5614
6	17	5.1	2079	4	US-09-252-991A-5584
7	17	5.1	2436	4	US-09-252-991A-5645
8	16	4.8	390	4	US-09-489-039A-887
9	16	4.8	478	4	US-09-621-976-1639
10	16	4.8	518	4	US-09-621-976-18442
11	16	4.8	651	4	US-09-489-039A-94
12	16	4.8	771	4	US-09-489-039A-4386
13	16	4.8	960	4	US-09-489-039A-4989
14	16	4.8	1020	4	US-09-543-681A-1655
15	16	4.8	1023	4	US-09-489-039A-754
16	16	4.8	1149	4	US-09-489-039A-3580
17	16	4.8	1194	4	US-09-489-039A-5491
18	16	4.8	1235	1	US-08-035-726-13
19	16	4.8	1235	1	US-08-035-726-15
20	16	4.8	1235	1	US-08-036-623A-13
21	16	4.8	1235	1	US-08-036-623A-15
22	16	4.8	1266	4	US-09-489-039A-812
23	16	4.8	1265	4	US-09-489-039A-4709
24	16	4.8	2655	4	US-09-252-991A-10136
25	16	4.8	5737	1	US-08-259-264-1
26	16	4.8	8144	4	US-09-453-702B-29
27	16	4.8	10095	3	US-08-822-586-45

C	28	16	4.8	1830121	4	US-09-557-884-1	Sequence 1, Appli
C	29	16	4.8	1830121	4	US-09-643-990A-1	Sequence 2, Appli
C	30	16	4.8	4403765	3	US-09-103-840A-2	Sequence 2, Appli
C	31	16	4.8	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C	32	15	4.5	381	4	US-09-252-991A-4460	Sequence 4460, Ap
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C	34	15	4.5	474	4	US-09-252-991A-2626	Sequence 2626, Ap
C	35	15	4.5	488	3	US-09-385-982-471	Sequence 471, App
C	36	15	4.5	501	4	US-09-252-991A-3513	Sequence 3513, Ap
C	37	15	4.5	594	4	US-09-489-039A-7023	Sequence 7023, Ap
C	38	15	4.5	660	4	US-09-252-991A-3512	Sequence 3512, Ap
C	39	15	4.5	738	4	US-09-252-991A-4507	Sequence 4507, Ap
C	40	15	4.5	876	4	US-09-489-039A-2407	Sequence 2407, Ap
C	41	15	4.5	963	4	US-09-252-991A-6490	Sequence 6490, Ap
C	42	15	4.5	972	4	US-09-252-991A-4609	Sequence 4609, Ap
C	43	15	4.5	978	4	US-09-489-039A-1168	Sequence 1168, Ap
C	44	15	4.5	978	4	US-09-489-039A-1185	Sequence 1185, Ap
C	45	15	4.5	990	4	US-09-489-039A-6858	Sequence 6858, Ap
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C	47	15	4.5	1047	4	US-09-252-991A-2368	Sequence 2368, Ap
C	48	15	4.5	1050	4	US-09-252-991A-13134	Sequence 13134, A
C	49	15	4.5	1086	4	US-09-252-991A-3516	Sequence 3516, A
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C	51	15	4.5	1110	4	US-09-252-991A-4219	Sequence 4219, Ap
C	52	15	4.5	1116	4	US-09-252-991A-13384	Sequence 13384, A
C	53	15	4.5	1120	1	US-08-203-806B-3	Sequence 3, Appli
C	54	15	4.5	1120	4	US-09-017-754A-3	Sequence 3, Appli
C	55	15	4.5	1125	4	US-09-252-991A-3515	Sequence 3515, Ap
C	56	15	4.5	1126	4	US-09-461-325-89	Sequence 89, Appl
C	57	15	4.5	1126	4	US-10-012-542-89	Sequence 89, Appl
C	58	15	4.5	1128	3	US-09-106-217-15	Sequence 15, Appl
C	59	15	4.5	1128	4	US-09-252-991A-3879	Sequence 3879, Ap
C	60	15	4.5	1134	3	US-09-106-217-1	Sequence 1, Appli
C	61	15	4.5	1216	4	US-09-016-434-1474	Sequence 1474, Ap
C	62	15	4.5	1302	4	US-09-252-991A-6541	Sequence 6541, Ap
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C	69	15	4.5	1377	4	US-09-252-991A-13964	Sequence 13964, A
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C	73	15	4.5	1488	2	US-08-812-203-4	Sequence 4, Appli
C	74	15	4.5	1488	3	US-09-300-864-4	Sequence 4, Appli
C	75	15	4.5	1488	4	US-09-598-418-4	Sequence 4, Appli
C	76	15	4.5	1707	4	US-09-252-991A-12666	Sequence 12666, A
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C	79	15	4.5	1728	3	US-09-048-129-1	Sequence 1, Appli
C	80	15	4.5	1728	3	US-09-048-079-1	Sequence 1, Appli
C	81	15	4.5	1731	4	US-09-252-991A-4008	Sequence 4008, Ap
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C	85	15	4.5	1839	1	US-08-440-815-3	Sequence 3, Appli
C	86	15	4.5	1839	3	US-08-486-449-3	Sequence 3, Appli
C	87	15	4.5	1839	4	US-08-578-684-3	Sequence 3, Appli
C	88	15	4.5	1881	3	US-09-235-246-2	Sequence 2, Appli
C	89	15	4.5	2022	1	US-08-803-973-6	Sequence 6, Appli
C	90	15	4.5	2022	1	US-08-803-972-6	Sequence 6, Appli
C	91	15	4.5	2025	4	US-09-252-991A-10293	Sequence 10293, A
C	92	15	4.5	2065	3	US-08-335-865J-8	Sequence 8, Appli
C	93	15	4.5	2094	4	US-09-252-991A-10564	Sequence 10564, A
C	94	15	4.5	2124	1	US-08-803-973-11	Sequence 11, Appl
C	95	15	4.5	2124	1	US-08-803-972-11	Sequence 11, Appl
C	96	15	4.5	2298	4	US-09-489-039A-2033	Sequence 2033, Ap
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C	98	15	4.5	2472	4	US-09-252-991A-3902	Sequence 3902, Ap
C	99	15	4.5	2562	4	US-09-252-991A-4045	Sequence 4045, Ap
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107	15	4.5	4080	4	US-09-016-434-1292	Sequence 1292, Ap
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111	15	4.5	5833	4	US-09-976-594-183	Sequence 183, App
112	15	4.5	43795	3	US-08-742-185-101	Sequence 101, App
113	15	4.5	4403765	3	US-09-103-840A-2	Sequence 2, Appl
114	15	4.5	4411529	3	US-09-103-840A-1	Sequence 1, Appl
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116	14	4.2	37	3	US-08-463-1608-60	Sequence 60, Appl
117	14	4.2	37	5	PCT-US91-02568-18	Sequence 18, Appl
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119	14	4.2	150	4	US-09-513-783A-137	Sequence 137, App
120	14	4.2	192	4	US-09-543-681A-31	Sequence 31, Appl
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124	14	4.2	297	4	US-08-670-314-574	Sequence 574, App
125	14	4.2	309	1	US-08-086-410-24	Sequence 24, Appl
126	14	4.2	330	4	US-08-472-701-1	Sequence 1, Appl
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128	14	4.2	356	3	US-09-060-756-396	Sequence 396, App
129	14	4.2	356	4	US-09-670-314-396	Sequence 396, App
130	14	4.2	359	3	US-08-589-028-3	Sequence 3, Appl
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132	14	4.2	359	3	US-08-785-271-3	Sequence 3, Appl
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134	14	4.2	360	1	US-08-086-410-21	Sequence 21, Appl
135	14	4.2	360	1	US-08-314-586-28	Sequence 28, Appl
136	14	4.2	360	3	US-08-943-731-79	Sequence 79, Appl
137	14	4.2	375	4	US-09-489-039A-5059	Sequence 5059, App
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142	14	4.2	394	4	US-08-670-314-302	Sequence 302, App
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151	14	4.2	485	4	US-09-621-976-1307	Sequence 1307, Ap
152	14	4.2	486	4	US-09-252-991A-6881	Sequence 6881, Ap
153	14	4.2	486	4	US-09-621-976-492	Sequence 492, App
154	14	4.2	495	4	US-09-489-039A-3316	Sequence 3316, Ap
155	14	4.2	496	4	US-09-495-050A-246	Sequence 246, App
156	14	4.2	498	4	US-09-252-991A-7343	Sequence 7343, Ap
157	14	4.2	508	4	US-09-401-064-170	Sequence 170, App
158	14	4.2	510	4	US-09-621-976-1435	Sequence 1435, Ap
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161	14	4.2	515	3	US-08-785-271-1	Sequence 1, Appl
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163	14	4.2	537	4	US-09-252-991A-15911	Sequence 15911, A
164	14	4.2	585	3	US-08-867-902F-3	Sequence 3, Appl
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166	14	4.2	591	4	US-08-476-102A-9	Sequence 9, Appl
167	14	4.2	591	5	PCT-US96-05320A-918	Sequence 918, App
168	14	4.2	598	4	US-09-537-696-11	Sequence 11, Appl
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172	14	4.2	601	3	US-09-310-845-1	Sequence 1, Appl
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14	4.2	637	4	US-09-252-991A-1286	Sequence 1286, Ap
14	4.2	638	4	US-09-537-696-12	Sequence 12, Appl
14	4.2	638	4	US-09-321-017B-744	Sequence 744, App
14	4.2	655	4	US-09-833-381-1001	Sequence 1001, Ap
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14	4.2	781	4	US-09-280-116-268	Sequence 268, App
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14	4.2	822	4	US-09-252-991A-11456	Sequence 11456, A
14	4.2	831	4	US-09-252-991A-1380	Sequence 1380, Ap
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14	4.2	945	4	US-09-252-991A-7152	Sequence 7152, Ap
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14	4.2	984	4	US-09-252-991A-149	Sequence 149, App
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14	4.2	1017	4	US-09-516-065-31	Sequence 31, Appl
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14	4.2	1026	4	US-09-489-039A-6196	Sequence 6196, Ap
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14	4.2	1029	4	US-09-543-681A-556	Sequence 556, App
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14	4.2	1089	4	US-09-489-039A-2284	Sequence 2284, Ap
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14	4.2	1197	4	US-09-489-039A-5988	Sequence 5988, Ap

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C 249	14	4.2	1206	4	US-09-252-991A-1208	Sequence 1208, Ap	C 322	14	4.2	2187	4	US-09-489-039A-6238	Sequence 6238, Ap
C 250	14	4.2	1218	4	US-09-432-470-3	Sequence 3, Appli	C 323	14	4.2	2208	4	US-09-252-991A-2086	Sequence 2086, Ap
C 251	14	4.2	1218	4	US-09-432-470-3	Sequence 3, Appli	C 324	14	4.2	2352	4	US-09-252-991A-3127	Sequence 3127, Ap
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C 253	14	4.2	1227	1	US-08-351-473B-7	Sequence 7, Appli	C 326	14	4.2	2451	4	US-09-252-991A-6721	Sequence 6721, Ap
C 254	14	4.2	1263	4	US-09-489-039A-6928	Sequence 6928, Ap	C 327	14	4.2	2457	4	US-09-252-991A-120	Sequence 120, Ap
C 255	14	4.2	1270	4	US-09-016-434-1184	Sequence 1184, Ap	C 328	14	4.2	2493	4	US-09-252-991A-10571	Sequence 10571, A
C 256	14	4.2	1278	4	US-09-252-991A-6758	Sequence 6758, Ap	C 329	14	4.2	2499	4	US-09-775-508C-7	Sequence 7, Appli
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C 258	14	4.2	1308	4	US-09-252-991A-2553	Sequence 2553, Ap	C 331	14	4.2	2586	4	US-09-252-991A-1804	Sequence 1804, Ap
C 259	14	4.2	1317	4	US-09-252-991A-15836	Sequence 15836, A	C 332	14	4.2	2592	4	US-09-328-352-2604	Sequence 2604, Ap
C 260	14	4.2	1317	4	US-09-620-312D-818	Sequence 818, Ap	C 333	14	4.2	2634	3	US-08-911-853-30	Sequence 30, Appli
C 261	14	4.2	1325	4	US-09-919-172-83	Sequence 83, Appli	C 334	14	4.2	2634	3	US-09-479-409-30	Sequence 30, Appli
C 262	14	4.2	1325	4	US-09-919-172-83	Sequence 83, Appli	C 335	14	4.2	2634	4	US-09-479-453-30	Sequence 30, Appli
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C 266	14	4.2	1341	4	US-09-489-039A-2416	Sequence 2416, Ap	C 339	14	4.2	2790	4	US-09-252-991A-2632	Sequence 2632, Ap
C 267	14	4.2	1389	4	US-09-711-164-174	Sequence 174, Ap	C 340	14	4.2	2820	5	PCT-US93-11725-1	Sequence 1, Appli
C 268	14	4.2	1389	4	US-09-489-039A-5256	Sequence 5256, Ap	C 341	14	4.2	2841	4	US-09-489-039A-3885	Sequence 3885, Ap
C 269	14	4.2	1395	4	US-09-252-991A-11229	Sequence 11229, A	C 342	14	4.2	2896	1	US-08-441-430-31	Sequence 31, Appli
C 270	14	4.2	1395	4	US-09-489-039A-986	Sequence 986, Ap	C 343	14	4.2	2910	4	US-09-252-991A-7009	Sequence 7009, Ap
C 271	14	4.2	1401	4	US-09-489-039A-6151	Sequence 6151, Ap	C 344	14	4.2	2949	3	US-08-433-522A-1	Sequence 1, Appli
C 272	14	4.2	1404	4	US-09-252-991A-7154	Sequence 7154, Ap	C 345	14	4.2	2949	3	US-09-135-166-1	Sequence 1, Appli
C 273	14	4.2	1407	4	US-09-252-991A-5792	Sequence 5792, Ap	C 346	14	4.2	2949	3	US-08-942-046-1	Sequence 1, Appli
C 274	14	4.2	1407	4	US-09-489-039A-5557	Sequence 5557, Ap	C 347	14	4.2	2967	4	US-09-252-991A-10675	Sequence 10675, A
C 275	14	4.2	1416	4	US-09-107-532A-975	Sequence 975, Ap	C 348	14	4.2	2995	1	US-08-441-430-32	Sequence 32, Appli
C 276	14	4.2	1422	4	US-09-252-991A-6350	Sequence 6350, Ap	C 349	14	4.2	3027	4	US-09-252-991A-10492	Sequence 10492, A
C 277	14	4.2	1422	4	US-09-252-991A-6870	Sequence 6870, Ap	C 350	14	4.2	3095	4	US-09-293-549-7	Sequence 7, Appli
C 278	14	4.2	1428	4	US-09-252-991A-14802	Sequence 14802, A	C 351	14	4.2	3099	4	US-09-252-991A-7487	Sequence 7487, Ap
C 279	14	4.2	1437	4	US-09-489-039A-7311	Sequence 7311, Ap	C 352	14	4.2	3144	4	US-09-252-991A-12554	Sequence 12554, A
C 280	14	4.2	1443	4	US-09-252-991A-8845	Sequence 8845, Ap	C 353	14	4.2	3186	4	US-09-252-991A-7120	Sequence 7120, Ap
C 281	14	4.2	1446	4	US-09-489-039A-1244	Sequence 1244, Ap	C 354	14	4.2	3209	1	US-07-803-633A-12	Sequence 12, Appli
C 282	14	4.2	1448	4	US-09-130-491-9	Sequence 9, Appli	C 355	14	4.2	3378	4	US-09-252-991A-2158	Sequence 2158, Ap
C 283	14	4.2	1449	4	US-09-252-991A-2200	Sequence 2200, Ap	C 356	14	4.2	3387	4	US-09-194-640A-2	Sequence 2, Appli
C 284	14	4.2	1455	4	US-09-252-991A-1758	Sequence 1758, A	C 357	14	4.2	3390	4	US-09-489-039A-3029	Sequence 3029, Ap
C 285	14	4.2	1458	4	US-09-489-039A-2996	Sequence 2996, Ap	C 358	14	4.2	3543	4	US-09-252-991A-15993	Sequence 15993, A
C 286	14	4.2	1482	4	US-09-566-921-93	Sequence 93, Appli	C 359	14	4.2	3667	3	US-09-221-017B-727	Sequence 727, Ap
C 287	14	4.2	1485	4	US-09-252-991A-10594	Sequence 10594, A	C 360	14	4.2	3683	3	US-08-450-962-1	Sequence 1, Appli
C 288	14	4.2	1491	4	US-09-252-991A-14336	Sequence 14336, A	C 361	14	4.2	3683	4	US-08-848-631-1	Sequence 1, Appli
C 289	14	4.2	1536	4	US-09-252-991A-10735	Sequence 10735, A	C 362	14	4.2	3868	3	US-09-357-070-1	Sequence 1, Appli
C 290	14	4.2	1572	4	US-09-252-991A-7304	Sequence 7304, Ap	C 363	14	4.2	3996	4	US-09-620-312D-195	Sequence 195, Ap
C 291	14	4.2	1578	4	US-09-543-681A-615	Sequence 615, Ap	C 364	14	4.2	4257	3	US-08-821-994-72	Sequence 72, Appli
C 292	14	4.2	1578	4	US-09-252-991A-13064	Sequence 13064, A	C 365	14	4.2	4257	4	US-09-252-991A-15796	Sequence 15796, A
C 293	14	4.2	1638	4	US-09-489-039A-3801	Sequence 3801, Ap	C 366	14	4.2	4276	4	US-09-434-066-22	Sequence 22, Appli
C 294	14	4.2	1644	4	US-09-252-991A-6563	Sequence 6563, Ap	C 367	14	4.2	4431	4	US-09-252-991A-12856	Sequence 12856, A
C 295	14	4.2	1668	4	US-09-252-991A-14950	Sequence 14950, A	C 368	14	4.2	4846	4	US-08-956-171B-276	Sequence 276, Ap
C 296	14	4.2	1671	4	US-09-252-991A-2839	Sequence 2839, Ap	C 369	14	4.2	4881	4	US-09-252-991A-7234	Sequence 7234, Ap
C 297	14	4.2	1707	4	US-09-252-991A-6693	Sequence 6693, Ap	C 370	14	4.2	5033	4	US-09-976-594-141	Sequence 141, Ap
C 298	14	4.2	1707	4	US-09-252-991A-10980	Sequence 10980, A	C 371	14	4.2	5220	2	US-08-777-405A-1	Sequence 1, Appli
C 299	14	4.2	1736	3	US-09-360-197-13	Sequence 13, Appli	C 372	14	4.2	5220	2	US-08-977-871A-1	Sequence 1, Appli
C 300	14	4.2	1752	4	US-09-489-039A-6840	Sequence 6840, Ap	C 373	14	4.2	5220	2	US-09-225-951-1	Sequence 1, Appli
C 301	14	4.2	1777	4	US-09-205-258-138	Sequence 138, Ap	C 374	14	4.2	5220	4	US-09-841-341-1	Sequence 1, Appli
C 302	14	4.2	1782	4	US-09-489-039A-1438	Sequence 1438, Ap	C 375	14	4.2	5220	4	US-10-027-591-1	Sequence 1, Appli
C 303	14	4.2	1794	4	US-09-252-991A-6581	Sequence 6581, Ap	C 376	14	4.2	5421	1	US-08-118-441-28	Sequence 28, Appli
C 304	14	4.2	1815	3	US-09-041-545-1	Sequence 1, Appli	C 377	14	4.2	5421	3	US-08-338-579A-28	Sequence 28, Appli
C 305	14	4.2	1815	3	US-09-327-925-1	Sequence 1, Appli	C 378	14	4.2	5421	5	PCT-US94-09851-28	Sequence 28, Appli
C 306	14	4.2	1818	4	US-09-252-991A-10649	Sequence 10649, A	C 379	14	4.2	5455	4	US-10-304-708-33	Sequence 33, Appli
C 307	14	4.2	1833	4	US-09-252-991A-11169	Sequence 11169, A	C 380	14	4.2	5636	4	US-09-376-594-335	Sequence 335, Ap
C 308	14	4.2	1890	4	US-09-252-991A-206	Sequence 206, Ap	C 381	14	4.2	6244	1	US-08-076-726-15	Sequence 15, Appli
C 309	14	4.2	1918	4	US-09-369-247-41	Sequence 41, Appli	C 382	14	4.2	6244	1	US-08-260-452-8	Sequence 8, Appli
C 310	14	4.2	2043	4	US-09-252-991A-11027	Sequence 11027, A	C 383	14	4.2	6244	2	US-08-481-970-8	Sequence 8, Appli
C 311	14	4.2	2060	3	US-09-370-807-1	Sequence 1, Appli	C 384	14	4.2	6244	2	US-08-897-719-8	Sequence 8, Appli
C 312	14	4.2	2060	4	US-09-921-259-1	Sequence 1, Appli	C 385	14	4.2	6244	3	US-09-163-269-8	Sequence 8, Appli
C 313	14	4.2	2073	4	US-09-252-991A-144	Sequence 144, Ap	C 386	14	4.2	6343	3	US-08-581-148C-30	Sequence 30, Appli
C 314	14	4.2	2073	4	US-09-252-991A-15779	Sequence 15779, A	C 387	14	4.2	7676	1	US-08-451-778A-7	Sequence 7, Appli
C 315	14	4.2	2073	4	US-09-489-039A-3869	Sequence 3869, Ap	C 388	14	4.2	7676	2	US-08-451-778A-7	Sequence 7, Appli
C 316	14	4.2	2075	4	US-09-602-543-3	Sequence 3, Appli	C 389	14	4.2	7676	2	US-08-998-208-7	Sequence 7, Appli
C 317	14	4.2	2080	4	US-09-713-273A-11	Sequence 11, Appli	C 390	14	4.2	7676	5	PCT-US95-06743-7	Sequence 7, Appli
C 318	14	4.2	2119	4	US-09-399-588-1	Sequence 1, Appli	C 391	14	4.2	8096	3	US-09-058-489-33	Sequence 33, Appli
C 319	14	4.2	2124	4	US-09-266-965-44	Sequence 44, Appli	C 392	14	4.2	8324	4	US-09-186-489-5	Sequence 5, Appli

C 539	13	3.9	386	2	US-08-592-541-103	Sequence 103, App	Sequence 103, App	612	13	3.9	507	4	US-09-833-381-1378	Sequence 1378, Ap
C 540	13	3.9	386	3	US-09-124-698-103	Sequence 103, App	Sequence 103, App	613	13	3.9	510	4	US-09-252-991A-3773	Sequence 3773, Ap
C 541	13	3.9	386	3	US-09-127-480-103	Sequence 103, App	Sequence 103, App	614	13	3.9	511	4	US-09-621-976-3316	Sequence 3316, Ap
C 542	13	3.9	386	3	US-08-496-841C-103	Sequence 103, App	Sequence 103, App	615	13	3.9	514	4	US-09-489-039A-164	Sequence 164, App
C 543	13	3.9	386	4	US-09-124-523-103	Sequence 103, App	Sequence 103, App	616	13	3.9	516	4	US-09-252-991A-7257	Sequence 7257, App
C 544	13	3.9	386	4	US-09-636-796A-103	Sequence 103, App	Sequence 103, App	617	13	3.9	519	4	US-09-252-991A-3521	Sequence 3521, Ap
C 545	13	3.9	386	4	US-08-431-048P-103	Sequence 103, App	Sequence 103, App	618	13	3.9	521	4	US-09-621-976-17468	Sequence 17468, A
C 546	13	3.9	391	3	US-09-034-205-1	Sequence 1, Appli	Sequence 1, Appli	619	13	3.9	524	1	US-08-340-539A-10	Sequence 10, Appl
C 547	13	3.9	391	3	US-09-034-205-2	Sequence 2, Appli	Sequence 2, Appli	620	13	3.9	524	2	US-08-461-592B-10	Sequence 10, Appl
C 548	13	3.9	391	3	US-09-034-205-3	Sequence 3, Appli	Sequence 3, Appli	621	13	3.9	525	4	US-09-252-991A-10241	Sequence 10241, A
C 549	13	3.9	391	3	US-09-034-205-4	Sequence 4, Appli	Sequence 4, Appli	622	13	3.9	531	4	US-09-252-991A-8262	Sequence 8262, Ap
C 550	13	3.9	391	3	US-08-934-097A-1	Sequence 1, Appli	Sequence 1, Appli	623	13	3.9	534	4	US-09-252-991A-11881	Sequence 11881, A
C 551	13	3.9	391	3	US-08-934-097A-2	Sequence 2, Appli	Sequence 2, Appli	624	13	3.9	534	4	US-09-489-039A-2483	Sequence 2483, Ap
C 552	13	3.9	391	3	US-08-934-097A-3	Sequence 3, Appli	Sequence 3, Appli	625	13	3.9	538	2	US-08-332-766A-24	Sequence 24, Appl
C 553	13	3.9	391	3	US-08-934-097A-4	Sequence 4, Appli	Sequence 4, Appli	626	13	3.9	546	4	US-09-252-991A-11071	Sequence 11071, A
C 554	13	3.9	391	3	US-08-851-588-1	Sequence 1, Appli	Sequence 1, Appli	627	13	3.9	549	4	US-09-489-039A-1648	Sequence 1648, Ap
C 555	13	3.9	391	3	US-08-851-588-2	Sequence 2, Appli	Sequence 2, Appli	628	13	3.9	558	4	US-09-252-991A-9142	Sequence 9142, Ap
C 556	13	3.9	391	3	US-08-851-588-3	Sequence 3, Appli	Sequence 3, Appli	629	13	3.9	560	3	US-09-059-369-18	Sequence 18, Appl
C 557	13	3.9	391	3	US-08-851-588-4	Sequence 4, Appli	Sequence 4, Appli	630	13	3.9	560	3	US-09-040-984-72	Sequence 72, Appl
C 558	13	3.9	391	4	US-09-677-218B-1	Sequence 1, Appli	Sequence 1, Appli	631	13	3.9	560	4	US-09-123-912-72	Sequence 72, Appl
C 559	13	3.9	391	4	US-09-677-218B-2	Sequence 2, Appli	Sequence 2, Appli	632	13	3.9	560	4	US-09-643-587-72	Sequence 72, Appl
C 560	13	3.9	391	4	US-09-677-218B-3	Sequence 3, Appli	Sequence 3, Appli	633	13	3.9	560	4	US-09-480-894A-72	Sequence 72, Appl
C 561	13	3.9	391	4	US-09-677-218B-4	Sequence 4, Appli	Sequence 4, Appli	634	13	3.9	560	4	US-09-542-615A-72	Sequence 72, Appl
C 562	13	3.9	391	4	US-09-677-192-1	Sequence 1, Appli	Sequence 1, Appli	635	13	3.9	560	4	US-09-606-421B-72	Sequence 72, Appl
C 563	13	3.9	391	4	US-09-677-192-2	Sequence 2, Appli	Sequence 2, Appli	636	13	3.9	560	4	US-09-221-107-72	Sequence 72, Appl
C 564	13	3.9	391	4	US-09-677-192-3	Sequence 3, Appli	Sequence 3, Appli	637	13	3.9	564	4	US-09-134-001C-1906	Sequence 1906, Ap
C 565	13	3.9	391	4	US-09-677-192-4	Sequence 4, Appli	Sequence 4, Appli	638	13	3.9	570	4	US-09-252-991A-2145	Sequence 2145, Ap
C 566	13	3.9	400	4	US-08-956-171E-3704	Sequence 3704, Ap	Sequence 3704, Ap	639	13	3.9	570	4	US-08-956-171E-721	Sequence 721, App
C 567	13	3.9	400	4	US-08-956-171E-4128	Sequence 4128, Ap	Sequence 4128, Ap	640	13	3.9	574	4	US-09-252-991A-11567	Sequence 11567, A
C 568	13	3.9	405	3	US-09-328-111-195	Sequence 195, App	Sequence 195, App	641	13	3.9	576	4	US-08-328-352-1151	Sequence 1151, Ap
C 569	13	3.9	405	3	US-09-252-991A-6859	Sequence 6859, Ap	Sequence 6859, Ap	642	13	3.9	579	2	US-08-820-170A-5	Sequence 5, Appli
C 570	13	3.9	408	4	US-09-252-991A-8541	Sequence 8541, Ap	Sequence 8541, Ap	643	13	3.9	579	3	US-09-055-699-5	Sequence 5, Appli
C 571	13	3.9	414	4	US-09-489-039A-6850	Sequence 6850, Ap	Sequence 6850, Ap	644	13	3.9	579	3	US-09-273-565-5	Sequence 5, Appli
C 572	13	3.9	414	4	US-08-621-976-983	Sequence 983, App	Sequence 983, App	645	13	3.9	579	4	US-08-565-538-5	Sequence 5, Appli
C 573	13	3.9	417	4	US-09-252-991A-10500	Sequence 10500, A	Sequence 10500, A	646	13	3.9	579	4	US-08-661-468-5	Sequence 5, Appli
C 574	13	3.9	422	4	US-08-833-381-252	Sequence 252, App	Sequence 252, App	647	13	3.9	579	4	US-09-976-165-5	Sequence 5, Appli
C 575	13	3.9	423	1	US-08-470-179-41	Sequence 41, Appl	Sequence 41, Appl	648	13	3.9	582	5	PCT-US96-05320A-1664	Sequence 1664, Ap
C 576	13	3.9	426	4	US-09-328-352-2154	Sequence 2154, Ap	Sequence 2154, Ap	649	13	3.9	584	4	US-09-252-991A-6899	Sequence 6899, Ap
C 577	13	3.9	431	4	US-09-621-976-8714	Sequence 8714, Ap	Sequence 8714, Ap	650	13	3.9	584	4	US-09-621-976-18592	Sequence 18592, A
C 578	13	3.9	431	3	US-09-012-084-1	Sequence 1, Appli	Sequence 1, Appli	651	13	3.9	585	4	US-09-252-991A-10751	Sequence 10751, A
C 579	13	3.9	437	4	US-08-621-976-17335	Sequence 17335, A	Sequence 17335, A	652	13	3.9	588	4	US-09-252-991A-3961	Sequence 3961, Ap
C 580	13	3.9	438	4	US-09-489-039A-3082	Sequence 3082, Ap	Sequence 3082, Ap	653	13	3.9	589	1	US-08-580-038-4	Sequence 4, Appli
C 581	13	3.9	441	4	US-09-252-991A-2041	Sequence 2041, Ap	Sequence 2041, Ap	654	13	3.9	589	1	US-08-580-038-6	Sequence 6, Appli
C 582	13	3.9	441	4	US-09-107-532A-1392	Sequence 1392, Ap	Sequence 1392, Ap	655	13	3.9	590	1	US-08-580-038-8	Sequence 8, Appli
C 583	13	3.9	444	4	US-09-489-039A-5821	Sequence 5821, Ap	Sequence 5821, Ap	656	13	3.9	591	1	US-08-580-038-3	Sequence 3, Appli
C 584	13	3.9	445	4	US-08-621-976-2515	Sequence 2515, Ap	Sequence 2515, Ap	657	13	3.9	591	1	US-08-580-038-5	Sequence 5, Appli
C 585	13	3.9	447	4	US-09-489-039A-7040	Sequence 7040, Ap	Sequence 7040, Ap	658	13	3.9	591	1	US-08-580-038-12	Sequence 12, Appl
C 586	13	3.9	450	4	US-09-489-039A-3550	Sequence 3550, Ap	Sequence 3550, Ap	659	13	3.9	591	1	US-08-580-038-13	Sequence 13, Appl
C 587	13	3.9	458	4	US-09-621-976-16724	Sequence 16724, A	Sequence 16724, A	660	13	3.9	591	1	US-08-580-038-20	Sequence 20, Appl
C 588	13	3.9	461	4	US-09-004-838-68	Sequence 68, Appl	Sequence 68, Appl	661	13	3.9	591	4	US-08-580-038-22	Sequence 22, Appl
C 589	13	3.9	462	4	US-09-252-991A-3596	Sequence 3596, Ap	Sequence 3596, Ap	662	13	3.9	592	1	US-09-252-991A-7544	Sequence 7544, Ap
C 590	13	3.9	464	4	US-09-252-991A-14792	Sequence 14792, A	Sequence 14792, A	663	13	3.9	592	1	US-08-580-038-9	Sequence 9, Appli
C 591	13	3.9	464	2	US-08-956-171E-724	Sequence 724, App	Sequence 724, App	664	13	3.9	592	1	US-08-580-038-10	Sequence 10, Appl
C 592	13	3.9	473	3	US-08-866-757-3	Sequence 3, Appli	Sequence 3, Appli	665	13	3.9	592	1	US-08-580-038-11	Sequence 11, Appl
C 593	13	3.9	473	3	US-09-153-593-3	Sequence 3, Appli	Sequence 3, Appli	666	13	3.9	592	1	US-08-580-038-19	Sequence 19, Appl
C 594	13	3.9	474	4	US-09-252-991A-3236	Sequence 3236, Ap	Sequence 3236, Ap	667	13	3.9	592	1	US-08-580-038-21	Sequence 21, Appl
C 595	13	3.9	474	4	US-09-621-976-2182	Sequence 2182, Ap	Sequence 2182, Ap	668	13	3.9	592	1	US-08-580-038-23	Sequence 23, Appl
C 596	13	3.9	477	4	US-09-252-991A-6604	Sequence 6604, Ap	Sequence 6604, Ap	669	13	3.9	593	1	US-08-580-038-7	Sequence 7, Appli
C 597	13	3.9	485	4	US-08-621-976-547	Sequence 547, App	Sequence 547, App	670	13	3.9	593	1	US-08-580-038-14	Sequence 14, Appl
C 598	13	3.9	485	4	US-08-621-976-10726	Sequence 10726, A	Sequence 10726, A	671	13	3.9	593	1	US-08-580-038-16	Sequence 16, Appl
C 599	13	3.9	485	4	US-09-621-976-16723	Sequence 16723, A	Sequence 16723, A	672	13	3.9	593	1	US-08-580-038-17	Sequence 17, Appl
C 600	13	3.9	486	4	US-09-489-039A-2661	Sequence 2661, A	Sequence 2661, A	673	13	3.9	593	1	US-08-580-038-18	Sequence 18, Appl
C 601	13	3.9	491	4	US-09-621-976-808	Sequence 808, App	Sequence 808, App	674	13	3.9	593	1	US-08-580-038-24	Sequence 24, Appl
C 602	13	3.9	491	4	US-09-621-976-873	Sequence 873, App	Sequence 873, App	675	13	3.9	593	1	US-08-580-038-25	Sequence 25, Appl
C 603	13	3.9	492	4	US-09-134-001C-808	Sequence 808, App	Sequence 808, App	676	13	3.9	597	4	US-09-252-991A-6633	Sequence 6633, Ap
C 604	13	3.9	492	4	US-09-252-991A-11803	Sequence 11803, A	Sequence 11803, A	677	13	3.9	600	4	US-09-252-991A-9435	Sequence 9435, Ap
C 605	13	3.9	493	4	US-08-621-976-2217	Sequence 2217, Ap	Sequence 2217, Ap	678	13	3.9	606	4	US-09-252-991A-15290	Sequence 15290, A
C 606	13	3.9	493	4	US-09-621-976-15594	Sequence 15594, A	Sequence 15594, A	679	13	3.9	606	4	US-09-489-039A-1368	Sequence 1368, Ap
C 607	13	3.9	494	4	US-09-621-976-367	Sequence 367, App	Sequence 367, App	680	13	3.9	611	3	US-09-328-111-416	Sequence 416, App
C 608	13	3.9	495	4	US-09-252-991A-7246	Sequence 7246, Ap	Sequence 7246, Ap	681	13	3.9	618	4	US-09-252-991A-6939	Sequence 6939, Ap
C 609	13	3.9	495	4	US-09-621-976-1928	Sequence 1928, Ap	Sequence 1928, Ap	682	13	3.9	620	2	US-08-757-853-143	Sequence 143, App
C 610	13	3.9	496	4	US-08-621-976-16895	Sequence 16895, A	Sequence 16895, A	683	13	3.9	620	2	US-08-757-853-144	Sequence 144, App
C 611	13	3.9	501	4	US-09-621-976-176	Sequence 176, App	Sequence 176, App	684	13	3.9	620	2	US-08-757-853-145	Sequence 145, App

685	13	3.9	620	2	US-08-757-653-146	Sequence 146, App	758	13	3.9	678	4	US-09-489-039A-6806	Sequence 6806, Ap
686	13	3.9	620	2	US-08-757-653-147	Sequence 147, App	759	13	3.9	681	4	US-09-655-270A-14	Sequence 14, Appl
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C 892	13	3.9	960	4	US-09-976-594-580	Sequence 580, Appli	965	13	3.9	1131	3	US-08-821-324-16	Sequence 16, Appli
C 893	13	3.9	966	4	US-09-489-039A-6761	Sequence 6761, A	966	13	3.9	1131	3	US-09-295-028-16	Sequence 16, Appli
C 894	13	3.9	972	4	US-09-252-991A-3993	Sequence 3993, A	967	13	3.9	1131	4	US-09-106-582-16	Sequence 16, Appli
C 895	13	3.9	972	4	US-09-489-039A-1291	Sequence 1291, A	968	13	3.9	1131	4	US-09-159-469-16	Sequence 16, Appli
C 896	13	3.9	978	4	US-09-134-001C-676	Sequence 676, A	969	13	3.9	1131	4	US-09-693-542-16	Sequence 16, Appli
C 897	13	3.9	978	4	US-09-252-991A-7319	Sequence 7319, A	970	13	3.9	1134	4	US-09-252-991A-7137	Sequence 7137, A
C 898	13	3.9	978	4	US-09-252-991A-10557	Sequence 10557, A	971	13	3.9	1137	4	US-09-489-039A-6375	Sequence 6375, A
C 899	13	3.9	978	4	US-09-489-039A-4392	Sequence 4392, A	972	13	3.9	1137	4	US-09-134-000C-2188	Sequence 2188, A
C 900	13	3.9	981	4	US-09-328-352-4013	Sequence 4013, A	973	13	3.9	1152	4	US-09-328-352-246	Sequence 246, A
C 901	13	3.9	984	4	US-09-252-991A-4635	Sequence 4635, A	974	13	3.9	1158	4	US-09-489-039A-496	Sequence 496, A
C 902	13	3.9	984	4	US-09-134-000C-1664	Sequence 1664, A	975	13	3.9	1158	4	US-09-328-352-3004	Sequence 3004, A
C 903	13	3.9	996	1	US-08-671-525B-7	Sequence 7, Appli	976	13	3.9	1161	4		

977 13 3.9 1164 4 US-09-252-991A-5240 Sequence 5240, Ap
978 13 3.9 1167 4 US-09-489-039A-5703 Sequence 5703, Ap
C 979 13 3.9 1171 4 US-09-636-382A-14 Sequence 14, Appl
C 980 13 3.9 1173 4 US-09-252-991A-3422 Sequence 3422, Ap
981 13 3.9 1176 4 US-09-252-991A-11771 Sequence 11771, A
982 13 3.9 1188 4 US-09-489-039A-4952 Sequence 4952, Ap
983 13 3.9 1190 4 US-09-390-207-1 Sequence 1, Appl
984 13 3.9 1191 4 US-09-252-991A-14514 Sequence 14514, A
985 13 3.9 1194 4 US-09-252-991A-7454 Sequence 7454, Ap
986 13 3.9 1194 4 US-09-252-991A-13679 Sequence 13679, A
987 13 3.9 1194 4 US-09-489-039A-160 Sequence 160, App
C 988 13 3.9 1206 4 US-09-252-991A-2124 Sequence 2124, Ap
989 13 3.9 1206 4 US-09-252-991A-9058 Sequence 9058, Ap
C 990 13 3.9 1206 4 US-09-489-039A-6066 Sequence 6066, Ap
991 13 3.9 1209 4 US-09-489-039A-3354 Sequence 3354, Ap
992 13 3.9 1215 4 US-09-489-039A-1776 Sequence 1776, Ap
C 993 13 3.9 1215 4 US-09-489-039A-4435 Sequence 4435, Ap
C 994 13 3.9 1215 4 US-09-489-039A-4946 Sequence 4946, Ap
995 13 3.9 1218 4 US-09-489-039A-403 Sequence 403, App
C 996 13 3.9 1221 4 US-09-252-991A-13701 Sequence 13701, A
997 13 3.9 1230 4 US-09-489-039A-7046 Sequence 7046, Ap
998 13 3.9 1245 4 US-09-252-991A-10292 Sequence 10292, A
999 13 3.9 1248 4 US-09-252-991A-7361 Sequence 7361, Ap
1000 13 3.9 1251 4 US-09-252-991A-10142 Sequence 10142, A

ALIGNMENTS

RESULT 1
US-09-620-312D-625
; Sequence 625, Application US/09620312D
; Patent No. 6589662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyang
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yundong
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6589662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt FL_genes Version 1.0
; SEQ ID NO 625
; LENGTH: 1878
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (945)..(1229)
US-09-620-312D-625

Query Match 6.5%; Score 22; DB 4; Length 1878;
Best Local Similarity 100.0%; Pred. No. 0.0028;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 11 TTTTCTATGCTCTCCCTGCTGG 32
|||||
Db 473 TTTTCTATGCTCTCCCTGCTGG 494
|||||
RESULT 2
US-09-326-203A-14
; Sequence 14, Application US/09326203A
; Patent No. 6444876
; GENERAL INFORMATION:
; APPLICANT: Lasserer, Mike
; APPLICANT: Ruzitsky, Diane
; TITLE OF INVENTION: Acyl-CoA:Cholesterol Acyltransferase Related Nucleic
; TITLE OF INVENTION: Acid Sequences
; FILE REFERENCE: 17045/00/NO
; CURRENT APPLICATION NUMBER: US/09/326,203A
; CURRENT FILING DATE: 1999-06-04
; PRIOR APPLICATION NUMBER: 60/088,143
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/108,389
; PRIOR FILING DATE: 1998-11-12
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 1895
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (209)
; OTHER INFORMATION: n at position 209 is unknown
US-09-326-203A-14

Query Match 6.0%; Score 20; DB 4; Length 1895;
Best Local Similarity 100.0%; Pred. No. 0.045;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 22 CTCCTGCTGGCGCTGATGG 41
|||||
Db 524 CTCCTGCTGGCGCTGATGG 543
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RESULT 3
US-09-165-042-2
; Sequence 2, Application US/09165042
; Patent No. 6100077
; GENERAL INFORMATION:
; APPLICANT: Sturley, Stephen L.
; APPLICANT: Oelkers, Peter
; TITLE OF INVENTION: ISOLATION OF A GENE ENCODING DIACYLGLYCEROL
; TITLE OF INVENTION: ACYLTRANSFERASE
; FILE REFERENCE: 0575/56331
; CURRENT APPLICATION NUMBER: US/09/165,042
; CURRENT FILING DATE: 1998-10-01
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1976
; TYPE: DNA
; ORGANISM: Yeast
US-09-165-042-2

Query Match 6.0%; Score 20; DB 3; Length 1976;
Best Local Similarity 100.0%; Pred. No. 0.045;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 22 CTCCTGCTGGCGCTGATGG 41
|||||
Db 823 CTCCTGCTGGCGCTGATGG 842
|||||

RESULT 4
US-09-489-039A-1843
; Sequence 1843, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 1843
; LENGTH: 939
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-1843

Query Match 5.7%; Score 19; DB 4; Length 939;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 27 TGCTGGCGCTGATGGGAGA 45
Db 377 TGCTGGCGCTGATGGGAGA 395

RESULT 5
US-09-252-991A-5614
; Sequence 5614, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 5614
; LENGTH: 1512
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-5614

Query Match 5.1%; Score 17; DB 4; Length 1512;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 25 CCTGCTGGCGCTGATGG 41
Db 655 CCTGCTGGCGCTGATGG 671

RESULT 6
US-09-252-991A-5584/c
; Sequence 5584, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 5584
; LENGTH: 2079
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-5584

Query Match 5.1%; Score 17; DB 4; Length 2079;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 25 CCTGCTGGCGCTGATGG 41
Db 232 CCTGCTGGCGCTGATGG 216

RESULT 7
US-09-252-991A-5645
; Sequence 5645, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 5645
; LENGTH: 2436
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-5645

Query Match 5.1%; Score 17; DB 4; Length 2436;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 25 CCTGCTGGCGCTGATGG 41
Db 888 CCTGCTGGCGCTGATGG 904

RESULT 8
US-09-489-039A-887/c
; Sequence 887, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 887
; LENGTH: 390
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-887

Query Match 4.8%; Score 16; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 9.9;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 25 CCTGCTGGCGCTCATG 40
Db 173 CCTGCTGGCGCTCATG 158

Sequence 94, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 94
LENGTH: 651
TYPE: DNA
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-94

Query Match 4.8%; Score 16; DB 4; Length 651;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 25 CCTGCTGGCGCTCATG 40
Db 213 CCTGCTGGCGCTCATG 228

RESULT 12
US-09-489-039A-4386
Sequence 4386, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 4386
LENGTH: 771
TYPE: DNA
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-4386

Query Match 4.8%; Score 16; DB 4; Length 771;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 25 CCTGCTGGCGCTCATG 40
Db 201 CCTGCTGGCGCTCATG 216

RESULT 13
US-09-489-039A-4989
Sequence 4989, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 4989
LENGTH: 960
TYPE: DNA

QY 25 CCTGCTGGCGCTCATG 40
Db 173 CCTGCTGGCGCTCATG 158

Sequence 1639, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 1639
LENGTH: 478
TYPE: DNA
ORGANISM: Homo sapiens
NAME/KEY: CDS
LOCATION: 47..274
NAME/KEY: sig_peptide
LOCATION: 47..124
OTHER INFORMATION: Von Heijne matrix
OTHER INFORMATION: score 5.4000009536743
OTHER INFORMATION: seq LLWAWLWPKTLT/CV
US-09-621-976-1639

Query Match 4.8%; Score 16; DB 4; Length 478;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 159 CAAAGGAGAGATAGTG 174
Db 164 CAAAGGAGAGATAGTG 149

RESULT 10
US-09-621-976-18442
Sequence 18442, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 18442
LENGTH: 518
TYPE: DNA
ORGANISM: Homo sapiens
US-09-621-976-18442

Query Match 4.8%; Score 16; DB 4; Length 518;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 CTGGCGCTGATGGAG 44
Db 10 CTGGCGCTGATGGAG 25

RESULT 11
US-09-489-039A-94

; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-4989

Query Match 4.8%; Score 16; DB 4; Length 960;
Best Local Similarity 100.0%; Pred.No.11;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 24 CCCTGCTGGCGCTGAT 39
Db 170 CCCTGCTGGCGCTGAT 185

RESULT 14

US-09-543-681A-1655/C
; Sequence 1655, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 1655
; LENGTH: 1020
; TYPE: DNA
; ORGANISM: Proteus mirabilis
US-09-543-681A-1655

Query Match 4.8%; Score 16; DB 4; Length 1020;
Best Local Similarity 100.0%; Pred.No.11;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 159 CAAAGGAAGATAGTG 174
Db 636 CAAAGGAAGATAGTG 621

RESULT 15

US-09-489-039A-754
; Sequence 754, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 754
; LENGTH: 1023
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-754

Query Match 4.8%; Score 16; DB 4; Length 1023;
Best Local Similarity 100.0%; Pred.No.11;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 CTGCTGGCGCTGATGG 41
Db 607 CTGCTGGCGCTGATGG 622

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Job time : 83 secs

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OM nucleic - nucleic search, using sw model

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(without alignments)
549.420 Million cell updates/sec

Title: US-09-301-507-74

Perfect score: 336

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- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
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- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	22	6.5	455	15	US-10-198-846-1775
5	22	6.5	1878	15	US-10-037-270-625
6	22	6.5	1878	16	US-10-117-722-625
7	22	6.5	2061	15	US-10-198-846-11013
8	20	6.0	371	9	US-09-867-701-5894
9	20	6.0	457	9	US-09-867-701-2415
10	20	6.0	1411	15	US-10-273-438-1
11	20	6.0	1411	15	US-10-040-315A-1
12	20	6.0	1411	17	US-10-659-800-1
13	20	6.0	1467	15	US-10-278-733-2
14	20	6.0	1467	15	US-10-278-733-9

Sequence 14, Appl
Sequence 117, App
Sequence 319, App
Sequence 23461, A
Sequence 103, App
Sequence 30713, A
Sequence 14158, A
Sequence 16753, A
Sequence 14992, A
Sequence 181194, A
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Sequence 11139, A
Sequence 15579, A
Sequence 24725, A
Sequence 25361, A
Sequence 38655, A
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299	15	4.5	1174	13	US-10-205-858-353	Sequence 353, App	372	15	4.5	1174	15	US-10-176-985-353	Sequence 353, App
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386	15	4.5	1174	15	US-10-176-485-353	Sequence 353, App	459	15	4.5	1174	15	US-10-188-769-353	Sequence 353, App
387	15	4.5	1174	15	US-10-176-487-353	Sequence 353, App	460	15	4.5	1174	15	US-10-188-770-353	Sequence 353, App
388	15	4.5	1174	15	US-10-176-493-353	Sequence 353, App	461	15	4.5	1174	15	US-10-188-773-353	Sequence 353, App
389	15	4.5	1174	15	US-10-176-756-353	Sequence 353, App	462	15	4.5	1174	15	US-10-188-781-353	Sequence 353, App
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448	15	4.5	1174	15	US-10-187-603-353	Sequence 353, App	521	15	4.5	1174	15	US-10-194-425-353	Sequence 353, App
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533	15	4.5	1174	15	US-10-198-768-353	Sequence 353, App	Sequence 353, App	606	15	4.5	1174	15	US-10-184-639-353	Sequence 353, App
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537	15	4.5	1174	15	US-10-199-310-353	Sequence 353, App	Sequence 353, App	610	15	4.5	1174	15	US-10-188-771-353	Sequence 353, App
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539	15	4.5	1174	15	US-10-199-314-353	Sequence 353, App	Sequence 353, App	612	15	4.5	1174	15	US-10-192-008-353	Sequence 353, App
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548	15	4.5	1174	15	US-10-202-469-353	Sequence 353, App	Sequence 353, App	621	15	4.5	1174	15	US-10-194-458-353	Sequence 353, App
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554	15	4.5	1174	15	US-10-202-939-353	Sequence 353, App	Sequence 353, App	627	15	4.5	1174	15	US-10-198-752-353	Sequence 353, App
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557	15	4.5	1174	15	US-10-205-899-353	Sequence 353, App	Sequence 353, App	630	15	4.5	1174	15	US-10-197-692-353	Sequence 353, App
558	15	4.5	1174	15	US-10-205-899-353	Sequence 353, App	Sequence 353, App	631	15	4.5	1174	15	US-10-197-693-353	Sequence 353, App
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563	15	4.5	1174	15	US-10-183-002-353	Sequence 353, App	Sequence 353, App	636	15	4.5	1174	15	US-10-198-757-353	Sequence 353, App
564	15	4.5	1174	15	US-10-184-621-353	Sequence 353, App	Sequence 353, App	637	15	4.5	1174	15	US-10-198-761-353	Sequence 353, App
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566	15	4.5	1174	15	US-10-187-752-353	Sequence 353, App	Sequence 353, App	639	15	4.5	1174	15	US-10-198-763-353	Sequence 353, App
567	15	4.5	1174	15	US-10-187-887-353	Sequence 353, App	Sequence 353, App	640	15	4.5	1174	15	US-10-198-767-353	Sequence 353, App
568	15	4.5	1174	15	US-10-194-461-353	Sequence 353, App	Sequence 353, App	641	15	4.5	1174	15	US-10-199-301-353	Sequence 353, App
569	15	4.5	1174	15	US-10-195-892-353	Sequence 353, App	Sequence 353, App	642	15	4.5	1174	15	US-10-199-307-353	Sequence 353, App
570	15	4.5	1174	15	US-10-196-751-353	Sequence 353, App	Sequence 353, App	643	15	4.5	1174	15	US-10-199-312-353	Sequence 353, App
571	15	4.5	1174	15	US-10-197-694-353	Sequence 353, App	Sequence 353, App	644	15	4.5	1174	15	US-10-199-315-353	Sequence 353, App
572	15	4.5	1174	15	US-10-197-697-353	Sequence 353, App	Sequence 353, App	645	15	4.5	1174	15	US-10-199-316-353	Sequence 353, App
573	15	4.5	1174	15	US-10-197-707-353	Sequence 353, App	Sequence 353, App	646	15	4.5	1174	15	US-10-199-457-353	Sequence 353, App
574	15	4.5	1174	15	US-10-199-303-353	Sequence 353, App	Sequence 353, App	647	15	4.5	1174	15	US-10-199-459-353	Sequence 353, App
575	15	4.5	1174	15	US-10-199-318-353	Sequence 353, App	Sequence 353, App	648	15	4.5	1174	15	US-10-199-461-353	Sequence 353, App
576	15	4.5	1174	15	US-10-199-458-353	Sequence 353, App	Sequence 353, App	649	15	4.5	1174	15	US-10-199-461-353	Sequence 353, App
577	15	4.5	1174	15	US-10-199-462-353	Sequence 353, App	Sequence 353, App	650	15	4.5	1174	15	US-10-199-667-353	Sequence 353, App
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859	15	4.5	1174	15	US-10-015-389A-323	Sequence 323, App	932	15	4.5	2380	10	US-09-930-213-305	Sequence 305, App
860	15	4.5	1174	16	US-10-015-518A-323	Sequence 323, App	933	15	4.5	2414	15	US-10-084-817-87	Sequence 87, Appl
861	15	4.5	1174	16	US-10-013-913A-323	Sequence 323, App	934	15	4.5	2423	16	US-10-085-117-182	Sequence 182, App
862	15	4.5	1174	16	US-10-015-394A-323	Sequence 323, App	935	15	4.5	2433	13	US-10-282-122A-9589	Sequence 9589, Ap
863	15	4.5	1174	16	US-10-195-887-353	Sequence 353, App	936	15	4.5	2447	15	US-10-300-453A-9	Sequence 9, Appli
864	15	4.5	1174	16	US-10-195-893-353	Sequence 353, App	937	15	4.5	2451	13	US-10-282-122A-31972	Sequence 31972, A
865	15	4.5	1174	16	US-10-179-509-353	Sequence 353, App	938	15	4.5	2467	13	US-10-282-102A-10264	Sequence 10264, A
866	15	4.5	1174	16	US-10-194-486-353	Sequence 353, App	939	15	4.5	2497	15	US-10-300-453A-5	Sequence 5, Appli
867	15	4.5	1174	16	US-10-195-900-353	Sequence 353, App	940	15	4.5	2509	15	US-10-300-453A-1	Sequence 1, Appli
868	15	4.5	1174	16	US-10-198-759-353	Sequence 353, App	941	15	4.5	2509	15	US-10-300-453A-33	Sequence 33, Appl
869	15	4.5	1174	16	US-10-205-506-353	Sequence 353, App	942	15	4.5	2532	9	US-09-925-301-434	Sequence 434, App
870	15	4.5	1174	16	US-10-179-523-353	Sequence 353, App	943	15	4.5	2534	16	US-10-264-049-500	Sequence 500, App
871	15	4.5	1174	16	US-10-199-463-353	Sequence 353, App	944	15	4.5	2641	16	US-10-104-047-1176	Sequence 1176, Ap
872	15	4.5	1174	16	US-10-202-471-353	Sequence 353, App	945	15	4.5	2681	15	US-10-300-453A-35	Sequence 35, Appl
873	15	4.5	1174	16	US-10-207-915-353	Sequence 353, App	946	15	4.5	2742	13	US-10-342-897-715	Sequence 715, App
874	15	4.5	1174	16	US-10-015-390A-323	Sequence 323, App	947	15	4.5	2742	13	US-10-172-118-715	Sequence 715, App
875	15	4.5	1174	16	US-10-006-746A-323	Sequence 323, App	948	15	4.5	2742	16	US-10-085-117-185	Sequence 185, App
876	15	4.5	1174	16	US-10-011-795A-323	Sequence 323, App	949	15	4.5	2742	13	US-10-027-632-112124	Sequence 112124,
877	15	4.5	1174	16	US-10-012-231A-323	Sequence 323, App	950	15	4.5	2749	16	US-10-027-632-112124	Sequence 112124,
878	15	4.5	1174	17	US-10-197-709-353	Sequence 353, App	951	15	4.5	2767	13	US-10-301-533-23	Sequence 23, Appl
879	15	4.5	1174	17	US-10-206-916-353	Sequence 353, App	952	15	4.5	2776	16	US-10-334-143-159	Sequence 159, App
880	15	4.5	1191	9	US-09-770-445-48	Sequence 48, Appl	953	15	4.5	2889	16	US-10-085-117-213	Sequence 213, App
881	15	4.5	1206	16	US-10-369-493-24534	Sequence 24534, A	954	15	4.5	2889	14	US-10-114-893-213	Sequence 213, App
882	15	4.5	1209	16	US-10-369-493-46622	Sequence 46622, A	955	15	4.5	3271	13	US-09-865-879-6	Sequence 6, Appli
883	15	4.5	1216	16	US-10-305-720-1474	Sequence 1474, Ap	956	15	4.5	3271	13	US-09-861-925-8	Sequence 8, Appli
884	15	4.5	1218	13	US-10-027-632-254555	Sequence 254555,	957	15	4.5	3271	15	US-10-233-032A-8	Sequence 8, Appli
885	15	4.5	1218	16	US-10-027-632-254555	Sequence 254555,	958	15	4.5	3326	16	US-10-386-414-5	Sequence 5, Appli
886	15	4.5	1286	13	US-10-424-599-14420	Sequence 142420,	959	15	4.5	3584	15	US-10-300-453A-3	Sequence 3, Appli
887	15	4.5	1253	13	US-10-276-774-1020	Sequence 1020, Ap	960	15	4.5	3623	15	US-10-300-453A-4	Sequence 4, Appli
888	15	4.5	1266	13	US-10-424-599-82767	Sequence 82767, A	961	15	4.5	3623	15	US-10-300-453A-37	Sequence 37, Appl
889	15	4.5	1278	9	US-09-938-842A-1804	Sequence 1804, Ap	962	15	4.5	3672	13	US-10-087-192-191	Sequence 191, App
890	15	4.5	1278	11	US-09-938-842A-1804	Sequence 1804, Ap	963	15	4.5	3672	13	US-10-087-192-191	Sequence 191, App

964	15	4.5	3832	13	US-10-424-599-116552	Sequence 116552,
965	15	4.5	3942	15	US-10-300-453A-12	Sequence 11, Appl
966	15	4.5	3981	15	US-10-300-453A-11	Sequence 11, Appl
967	15	4.5	4036	16	US-10-305-720-1292	Sequence 1292, App
C 968	15	4.5	4282	16	US-10-085-117-212	Sequence 212, App
969	15	4.5	5000	8	US-08-781-986A-241	Sequence 241, App
970	15	4.5	5000	13	US-10-329-624-241	Sequence 241, App
971	15	4.5	5169	16	US-10-264-049-717	Sequence 717, App
972	15	4.5	5177	15	US-10-060-036-150	Sequence 150, App
973	15	4.5	5177	15	US-10-205-823-358	Sequence 358, App
974	15	4.5	5177	15	US-10-262-538-13	Sequence 13, Appl
C 975	15	4.5	5588	9	US-09-917-800A-1565	Sequence 1565, Ap
C 976	15	4.5	5638	16	US-10-369-493-27209	Sequence 27209, A
C 977	15	4.5	5763	16	US-10-062-674-2036	Sequence 2036, Ap
C 978	15	4.5	6088	13	US-10-302-173-730	Sequence 730, App
C 979	15	4.5	6523	16	US-10-062-674-1380	Sequence 1380, Ap
C 980	15	4.5	6571	9	US-09-369-347-172	Sequence 172, App
C 981	15	4.5	6577	10	US-09-971-392-95	Sequence 95, Appl
C 982	15	4.5	6846	13	US-10-282-122A-33353	Sequence 3353, A
C 983	15	4.5	10923	9	US-09-764-847-1079	Sequence 1079, Ap
C 984	15	4.5	10923	15	US-10-092-154-1079	Sequence 1079, Ap
985	15	4.5	18036	9	US-09-764-869-2287	Sequence 2287, Ap
986	15	4.5	18036	15	US-10-091-504-2287	Sequence 2287, Ap
987	15	4.5	18036	16	US-10-227-577-2287	Sequence 2287, Ap
988	15	4.5	25759	16	US-10-388-934-556	Sequence 556, App
989	15	4.5	33500	13	US-10-087-192-283	Sequence 283, App
C 990	15	4.5	38090	16	US-10-085-117-211	Sequence 211, App
C 991	15	4.5	38764	12	US-09-997-722-286	Sequence 286, App
992	15	4.5	38977	13	US-10-087-193-1321	Sequence 1321, Ap
C 993	15	4.5	42811	16	US-10-085-117-37	Sequence 37, Appl
C 994	15	4.5	54200	13	US-10-087-192-190	Sequence 190, App
995	15	4.5	57763	12	US-10-052-482-34	Sequence 34, Appl
996	15	4.5	78268	13	US-10-087-192-742	Sequence 742, App
C 997	15	4.5	85859	12	US-10-087-192-562	Sequence 562, App
C 998	15	4.5	87878	12	US-10-052-483-82	Sequence 82, Appl
C 999	15	4.5	105184	10	US-09-847-193-1831	Sequence 1831, Ap
1000	15	4.5	126413	13	US-10-087-192-1931	Sequence 1931, Ap

ALIGNMENTS

RESULT 1
US-10-355-716-74
: Sequence 74, Application US/10355716
: Publication No. US20030216339A1
: GENERAL INFORMATION:
: APPLICANT: Cynader, Max
: TITLE OF INVENTION: GENE SEQUENCES ASSOCIATED WITH NEURAL
: PLASTICITY AND METHODS RELATED THERETO
: NUMBER OF SEQUENCES: 132
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Seed Intellectual Property Law Group PLLC
: STREET: 701 Fifth Avenue, Suite 6300
: City: Seattle
: STATE: Washington
: COUNTRY: USA
: ZIP: 98104-7092
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/10/355,716
: FILING DATE: 31-Jan-2003
: CLASSIFICATION: <unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/09/301,507
: FILING DATE: 28-Apr-1999
: ATTORNEY/AGENT INFORMATION:
: NAME: Potter, Jane E. R.

```

;
;   REGISTRATION NUMBER: 33,332
;   REFERENCE/DOCKET NUMBER: 230018.401C1
;
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (206) 622-4900
;   TELEFAX: (206) 682-6031
;
;   INFORMATION FOR SEQ ID NO: 74:
;   SEQUENCE CHARACTERISTICS:
;       LENGTH: 336 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;
;   SEQUENCE DESCRIPTION: SEQ ID NO: 74:
;
US-10-355-716-74

Query Match          100.0%;   Score 336;   DB 16;   Length 336;
Best Local Similarity 100.0%;   Pred. No. 3.3e-18;
Matches 336;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

QY      1   CGGTGCATCTTTTTCATGCTCTCCCTGCTGGCGGCTGATGGGAGATACACAGCAGCAAAAC 60
DB      1   CGGTGCATCTTTTTCATGCTCTCCCTGCTGGCGGCTGATGGGAGATACACAGCAGCAAAAC 60

QY      61  GGACAGCTGGTNTCATGATCGACTCGGAGCCCTCTGCGENCTGCATGAGGCAACCACTATGTT 120
DB      61  GGACAGCTGGTNTCATGATCGACTCGGAGCCCTCTGCGENCTGCATGAGGCAACCACTATGTT 120

QY      121  GNATTCTATCAGCTCACCGGTTGNTAACAAGTATGAGTCTCAAGGAAGATAGTGGGAGTC 180
DB      121  GNATTCTATCAGCTCACCGGTTGNTAACAAGTATGAGTCTCAAGGAAGATAGTGGGAGTC 180

QY      181  TTCTGTGAGACCTATCTGAATCCCGGNTTGGCCCTCAGGNTTCCAGAGGGNCCTTGGTCGTC 240
DB      181  TTCTGTGAGACCTATCTGAATCCCGGNTTGGCCCTCAGGNTTCCAGAGGGNCCTTGGTCGTC 240

QY      241  CCATCGCCTAGCAGGGTTCAAGNAAAGGGGCCCGCNCATGGCAGTCCTTGGNCAGNAGNA 300
DB      241  CCATCGCCTAGCAGGGTTCAAGNAAAGGGGCCCGCNCATGGCAGTCCTTGGNCAGNAGNA 300

QY      301  ANGGAANTGNCACCAACCCCNNTTGGTTCCCAACCCA 336
DB      301  ANGGAANTGNCACCAACCCCNNTTGGTTCCCAACCCA 336

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RESULT 2
US-10-355-716-76
; Sequence 76, Application US/10355716
; Publication No. US20030216339A1
; GENERAL INFORMATION:
; APPLICANT: Cynader, Max
; Praasad, Shiv
; TITLE OF INVENTION: GENE SEQUENCES ASSOCIATED WITH NEURAL
; PLASTICITY AND METHODS RELATED THERETO
; NUMBER OF SEQUENCES: 132
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seed Intellectual Property Law Group PLLC
; STREET: 701 Fifth Avenue, Suite 6300
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/955,716
; FILING DATE: 31-Jan-2003
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/301,507
; FILING DATE: 28-Apr-1999
; ATTORNEY/AGENT INFORMATION:


```
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 230018.401C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 76:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 252 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 76:
US-10-355-716-76
      21.1%; Score 71; DB 16; Length 252;
Query Match      100.0%; Pred.No. 3.6e-31;
Best Local Similarity
Matches 71; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCTGATCTTTTCTATGCTCTCCCTGCTGGCGTGGAGATACAGACGACAAAAC 60
DB 1 CGCTGATCTTTTCTATGCTCTCCCTGCTGGCGTGGAGATACAGACGACAAAAC 60

QY 61 GGACAGCTCGT 71
DB 61 GGACAGCTCGT 71

RESULT 3
US-10-198-846-1775
; Sequence 1775, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1775
; LENGTH: 412
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 3, 203, 293, 343, 398
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-1775

Query Match      6.5%; Score 22; DB 15; Length 412;
Best Local Similarity      100.0%; Pred.No. 0.025;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TTTTCTATGCTCTCCCTGCTGG 32
DB 59 TTTTCTATGCTCTCCCTGCTGG 80

RESULT 4
US-10-198-846-8657
; Sequence 8657, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
```

```
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8657
; LENGTH: 455
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2, 7, 404, 454
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-8657

Query Match      6.5%; Score 22; DB 15; Length 455;
Best Local Similarity      100.0%; Pred.No. 0.025;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TTTTCTATGCTCTCCCTGCTGG 32
DB 69 TTTTCTATGCTCTCCCTGCTGG 90

RESULT 5
US-10-037-270-625
; Sequence 625, Application US/10037270
; Publication No. US20030104529A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyao
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yungqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: Tillinghast, John
; APPLICANT: Dmanac, Radoje T.
; TITLE OF INVENTION: NO. US20030104529A1el Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/10/037,270
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1104
; SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 625
; LENGTH: 1878
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (945)..(1229)
US-10-037-270-625
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Query Match      6.5%; Score 22; DB 15; Length 1878;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TTTTCTATGCTCTCCCTGCTGG 32
Db 473 TTTTCTATGCTCTCCCTGCTGG 494

RESULT 6
US-10-117-722-625
; Sequence 625, Application US/10117722
; Publication No. US20030219744A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Dmanac, Radoje T.
; TITLE OF INVENTION: No. US20030219744A1el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2BCIP
; CURRENT APPLICATION NUMBER: US/10/117,722
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/620,312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1104
; SOFTWARE: PC_FL_genes version 1.0
; SEQ ID NO 625
; LOCATION: (945)..(1229)
; LENGTH: 1878
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (945)..(1229)
US-10-117-722-625

Query Match      6.5%; Score 22; DB 16; Length 1878;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TTTTCTATGCTCTCCCTGCTGG 32
Db 473 TTTTCTATGCTCTCCCTGCTGG 494

RESULT 7
US-10-198-846-11013
; Sequence 11013, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11013
; LENGTH: 2061
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: misc feature
; LOCATION: 1_2_3_1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838,
; LOCATION: 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848,
; LOCATION: 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1860, 2009,
; LOCATION: 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057,
; LOCATION: 2058, 2059, 2060, 2061
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-11013

Query Match      6.5%; Score 22; DB 15; Length 2061;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TTTTCTATGCTCTCCCTGCTGG 32
Db 436 TTTTCTATGCTCTCCCTGCTGG 457

RESULT 8
US-09-867-701-5894
; Sequence 5894, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5894
; LENGTH: 371
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-5894

Query Match      6.0%; Score 20; DB 9; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 CTCCTGCTGGCGCTGATGG 41
Db 24 CTCCTGCTGGCGCTGATGG 43

RESULT 9
US-09-867-701-2415
; Sequence 2415, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2415
; LENGTH: 457
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
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```
; NAME/KEY: misc feature
; LOCATION: (1)_(457)
; OTHER INFORMATION: n = A,T,C or G
US-09-867-701-2415

Query Match
Best Local Similarity 6.0%; Score 20; DB 9; Length 457;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 CTCCTGCGCTGATGGGAGA 45
Db 32 CTCCTGCGCTGATGGGAGA 51

RESULT 10
US-10-273-438-1
; Sequence 1, Application US/10273438
; Publication No. US2003007257A1
; GENERAL INFORMATION:
; APPLICANT: Farese, Robert V.
; APPLICANT: Cases, Sylvaine
; APPLICANT: Smith, Steven
; APPLICANT: Erickson, Sandra
; TITLE OF INVENTION: Diacylglycerol O-Acyltransferase
; FILE REFERENCE: UCAL-105CIP2
; CURRENT APPLICATION NUMBER: US/10/273,438
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/10/040,315
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/107,771
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/US98/17883
; PRIOR FILING DATE: 1998-08-28
; PRIOR APPLICATION NUMBER: 09/103,754
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 09/339,472
; PRIOR FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1411
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-273-438-1

Query Match
Best Local Similarity 6.0%; Score 20; DB 15; Length 1411;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 22 CTCCTGCTGGCGCTGATGG 41
Db 273 CTCCTGCTGGCGCTGATGG 292

RESULT 11
US-10-040-315A-1
; Sequence 1, Application US/10040315A
; Publication No. US20030167483A1
; GENERAL INFORMATION:
; APPLICANT: Farese, Robert V.
; APPLICANT: Cases, Sylvaine
; APPLICANT: Smith, Steven
; APPLICANT: Erickson, Sandra
; TITLE OF INVENTION: Diacylglycerol O-Acyltransferase
; FILE REFERENCE: UCAL-105CIP2
; CURRENT APPLICATION NUMBER: US/10/040,315A
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/107,771
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/US98/17883
; PRIOR FILING DATE: 1998-08-28
; PRIOR APPLICATION NUMBER: 09/103,754
; PRIOR FILING DATE: 1998-06-24
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; PRIOR APPLICATION NUMBER: 09/339,472
; PRIOR FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1411
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-040-315A-1

Query Match
Best Local Similarity 6.0%; Score 20; DB 15; Length 1411;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 22 CTCCTGCTGGCGCTGATGG 41
Db 273 CTCCTGCTGGCGCTGATGG 292

RESULT 12
US-10-659-800-1
; Sequence 1, Application US/10659800
; Publication No. US20040078836A1
; GENERAL INFORMATION:
; APPLICANT: Farese, Robert V.
; APPLICANT: Cases, Sylvaine
; APPLICANT: Smith, Steven
; APPLICANT: Erickson, Sandra
; TITLE OF INVENTION: Diacylglycerol O-Acyltransferase
; FILE REFERENCE: UCAL-105CIP2CON2
; CURRENT APPLICATION NUMBER: US/10/659,800
; CURRENT FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 10/040,315
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/107,771
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/US98/17883
; PRIOR FILING DATE: 1998-08-28
; PRIOR APPLICATION NUMBER: 09/103,754
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 09/339,472
; PRIOR FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1411
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-659-800-1

Query Match
Best Local Similarity 6.0%; Score 20; DB 17; Length 1411;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 22 CTCCTGCTGGCGCTGATGG 41
Db 273 CTCCTGCTGGCGCTGATGG 292

RESULT 13
US-10-278-733-2
; Sequence 2, Application US/10278733
; Publication No. US20030100480A1
; GENERAL INFORMATION:
; APPLICANT: Smith, Steven
; APPLICANT: Chen, Hubert
; APPLICANT: Farese, Robert V Jr
; TITLE OF INVENTION: Methods and compositions for modulating
; TITLE OF INVENTION: sebaceous glands
; FILE REFERENCE: UCAL-105CIP4
; CURRENT APPLICATION NUMBER: US/10/278,733
; CURRENT FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: 10/040,315
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; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 09/339,472
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/107,771
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/US98/17883
; PRIOR FILING DATE: 1998-08-28
; PRIOR APPLICATION NUMBER: 09/103,754
; PRIOR FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1467
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)....(1467)
; OTHER INFORMATION: Homo sapiens diacylglycerol O-acyltransferase
; OTHER INFORMATION: homolog 1
US-10-278-733-2

Query Match
Best Local Similarity 100.0%; Score 20; DB 15; Length 1467;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 CTCCTGCTGGCGCTGATGG 41
Db 579 CTCCTGCTGGCGCTGATGG 598

RESULT 14
US-10-278-733-9
; Sequence 9, Application US/10278733
; Publication No. US20030100480A1
; GENERAL INFORMATION:
; APPLICANT: Smith, Steven
; APPLICANT: Chen, Hubert
; TITLE OF INVENTION: Methods and compositions for modulating
; TITLE OF INVENTION: sebaceous glands
; FILE REFERENCE: UCAL-105CIP4
; CURRENT APPLICATION NUMBER: US/10/278,733
; CURRENT FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: 10/040,315
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 09/339,472
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/107,771
; PRIOR FILING DATE: 1998-11-09
; PRIOR APPLICATION NUMBER: PCT/US98/17883
; PRIOR FILING DATE: 1998-08-28
; PRIOR APPLICATION NUMBER: 09/103,754
; PRIOR FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1467
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)....(1467)
; OTHER INFORMATION: Homo sapiens diacylglycerol O-acyltransferase
; OTHER INFORMATION: homolog 1 (DGA1), coding sequence
US-10-278-733-9

Query Match
Best Local Similarity 100.0%; Score 20; DB 15; Length 1467;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 CTCCTGCTGGCGCTGATGG 41
Db 579 CTCCTGCTGGCGCTGATGG 598

RESULT 15
US-10-157-855-14
; Sequence 14, Application US/10157855
; Publication No. US20020170091A1
; GENERAL INFORMATION:
; APPLICANT: Lasaner, Michael W.
; APPLICANT: Ruzinskiy, Diane M.
; TITLE OF INVENTION: Acyl-CoA:Cholesterol Acyltransferase Related Nucleic
; TITLE OF INVENTION: Acid Sequences
; FILE REFERENCE: 16516.158
; CURRENT APPLICATION NUMBER: US/10/157,855
; CURRENT FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 09/326,203
; PRIOR FILING DATE: 1999-06-04
; PRIOR APPLICATION NUMBER: 60/088,143
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/108,389
; PRIOR FILING DATE: 1998-11-12
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 1895
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (209)
; OTHER INFORMATION: n at position 209 is unknown
US-10-157-855-14

Query Match
Best Local Similarity 100.0%; Score 20; DB 14; Length 1895;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 CTCCTGCTGGCGCTGATGG 41
Db 524 CTCCTGCTGGCGCTGATGG 543

Search completed: June 4, 2004, 18:54:22
Job time : 296 secs
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